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Department of

Academic Affairs

Division of

Student Studies

Medical School Graduates, 1979

Davis G. Johnson

Association of

American Medical Colleges

Washington, D. C.

D S S REPORT 80-1

MEDICAL SCHOOL GRADUATES, 1979

by

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Department of Academic Affairs
Division of Student Studies

May 1980

Medical School Graduates, 1979

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Acknowledgments

This report was made possible by the efforts of the Graduation Questionnaire Coordinators in each of the 112 U.S. medical schools with 1979 graduates and by the 8,382 seniors who completed the survey. Appreciation is also due to the AAMC Divisions of Computer Services and Student Services for their help in processing the questionnaires and producing the summary reports.

Medical School Graduates, 1979

Purpose

The major purpose of this report is to provide a convenient and comprehensive reference document regarding the survey of 1979 medical school graduates that was carried out by the Association of American Medical Colleges (AAMC). Although most of the information contained in this report was distributed to the medical schools in the fall of 1979, some went to the Deans, some to the Graduation Questionnaire Coordinators and some went primarily to the senior medical students.

Background

As described in more detail in last year's report (1), the AAMC Division of Student Studies conducted a pilot-test of the graduation questionnaire in 1977 and the first national survey was carried out in 1978. Selected results of the 1978 survey have been reported fairly extensively in the literature (2,3,4,5,6).

Results of 1979 Survey

The overall findings of the 1979 survey are presented in the 26-page "Summary Report for All Schools" that follows. As indicated at the beginning of that report, it is based on responses from 8,382 students who responded to the questionnaire and released the use of their data for research purposes. This constitutes 55 percent of the 15,121 seniors enrolled in U.S. medical schools according to the AAMC 1978-1979 Fall Enrollment Survey. (Comparable figures for the 1978 survey were 7,849 respondents or 54 percent of 14,656 seniors.)

Except for a slight underrepresentation of minority group students, the respondents to both the 1978 and 1979 surveys appear to be quite representative of senior medical students in general. For the 1979 survey, each of the 112 schools with a graduating class participated, with their usable response rates ranging from a low of 13 percent to a high of 98 percent.

Each of the 112 schools was sent the aggregate results for their own students as well as the "all schools" information reproduced in this report. In addition, they were sent the anonymous "Strengths and Weaknesses" forms completed by their own students (See Appendix A). Schools with the necessary release from their students also received (for a nominal fee) xerox copies of each of their questionnaires and/or computer tapes of their individually-identified responses.

To provide optimally useful data regarding specialty certification plans, a supplementary analysis was made of student responses to Item 17 on the questionnaire. (See Appendix B.) The major differences between the original and supplementary analyses are:

(a) the original includes "possible" plans whereas the supplementary analysis is limited to "definite" and "most likely" plans;

(b) the percentages in the original are based on all 7,814 individuals who indicated in question 17a that they planned to seek certification in a specialty; whereas percentages in the supplementary analysis are calculated separately for those with "definite" and "most likely" plans;

(c) the slightly different totals for those with "definite" plans are due to the original analysis being limited to those answering "yes" to question 17a, whereas the latter includes 59 additional individuals who responded negatively or not at all to 17a but reported "definite" plans in 17b.

In addition to the individual school and national results that have already been noted, regional tabulations of the summary report and of the supplementary analysis of certification plans have also been produced for the schools located in each of the four AAMC regions (northeast, south, midwest and west).

Highlights of the "all schools" summary are presented in Appendix C. These "Selected Results" were sent to the Graduation Questionnaire Coordinators with the suggestion that they share them with their students.

Direct feedback of 1979 graduation questionnaire data was also provided during October 1979 to all students who participated in the National Resident Matching Program for 1980. This information is reproduced as Appendix D of this report. It is believed that the improved response rate (of approximately 65 percent for the 1980 survey) was due in part to this extensive feedback.

References

(1) Johnson, D.G. and Cuca, J.M. Medical School Graduates, 1978. Washington, D.C.: Association of American Medical Colleges, 1979. (This 44-page report is available for $2.00 from the AAMC.)

(2) Cuca, J.M. The Specialization and Career Preferences of Women and Men Recently Graduated from U.S. Medical Schools. J. Amer. Med. Wom. Assn., 34:425-435, November, 1979.

(3) Cuca, J.M. 1978 U.S. Medical School Graduates: Practice Setting Preferences, Hometowns and Spouse's Hometowns. J. Med. Educ., 55:220-222, March, 1980.

(4) Cuca, J.M. 1978 U.S. Medical School Graduates: Practice Setting Preferences, Other Career Plans, and Personal Characteristics. J. Med. Educ., 55:465-468, May, 1980.

(5) Cuca, J.M. 1978 U.S. Medical School Graduates: Career Plans by Racial/Ethnic Identity. J. Med. Educ., (scheduled for publication in July, 1980).

(6) AAMC Graduation Questionnaire Report to the Class of 1980 (Pages 35 - 39 of NRMP Directory, Including Hospitals and Programs Participating in the Matching Program for 1980 Appointments.) National Resident Matching Program, Evanston, Illinois, October, 1979.

Association of American Medical Colleges

1979 Medical Student Graduation Questionnaire Survey

Summary Report

for

ALL SCHOOLS

	ALL SCHOOLS
Total number of students who responded to questionnaire and released data for research:	8382
Above number as a percentage of all final year students (from Fall Enrollment Survey):	55%

I. MEDICAL SCHOOL EXPERIENCE AND CURRICULUM

	ALL SCHOOLS Number	Percent
1. Month and year you first entered medical school (either U.S. or foreign):__/19__		
Before 6/71	17	0.2
6/71 - 11/71	29	0.3
12/71 - 5/72	1	0.0
6/72 - 11/72	70	0.8
12/72 - 5/73	2	0.0
6/73 - 11/73	132	1.6
12/73 - 5/74	34	0.4
6/74 - 11/74	409	4.9
12/74 - 5/75	91	1.1
6/75 - 11/75	6709	80.0
12/75 - 5/76	66	0.8
6/76 - 11/76	793	9.5
12/76 - 5/77	7	0.1
All others including no response	22	0.3
2. Please circle the code number in the list below of the type of degree program from which you are graduating:		
1) M.D.	8007	95.5
2) joint bachelor's/M.D.	226	2.7
3) joint master's/M.D.	38	0.5
4) joint J.D./M.D.	1	0.0
5) joint Ph.D./M.D.	64	0.8
6) other	23	0.3
No response	23	0.3
3a. What is the normal length of the degree program from which you are graduating: _ years		
3 years	862	10.3
4 years	7230	86.3
5 years	38	0.5
6 years	166	2.0
7 years	29	0.3
8 years	3	0.0
All others including no response	54	0.6
b. Month and year your M.D. will be awarded:__/19__		
12/78	53	0.6
1/79	24	0.3
2/79	52	0.6
3/79	90	1.1
4/79	31	0.4
5/79	4020	48.0
6/79	3912	46.7
7/79	48	0.6
8/79	21	0.3
9/79	10	0.1
10/79	4	0.0
11/79	12	0.1
12/79	41	0.5
All others including no response	64	0.8
4. Listed below are routes of entrance to medical school which are less usual than that of entering medical school after college graduation. Please circle the code numbers of the ones, if any, which describe your entrance to the medical school from which you are graduating:		
1) entered medical school directly from high school	98	1.2
2) entered after college matriculation but before graduation	808	9.6
3) transferred from one U.S. medical school to another	138	1.6
4) transferred from a non-U.S. medical school	276	3.3
5) admitted with advanced standing to year 2,3, or 4 without prior enrollment in medical school	115	1.4
None of the above including no response	6970	83.2

REMINDER: More than one response per respondent was possible for this item.

	ALL SCHOOLS Number	Percent
5. Did you at any time after you entered medical school interrupt your studies (for reasons other than vacation)(Circle one):		
1) Yes	527	6.3
2) No	7805	93.1
No response	50	0.6
a. If yes, what were the reasons? (Circle the code numbers of all which are applicable):		
Not applicable (Did not interrupt medical studies)	7855	
1) health reasons	85	16.1
2) special training or educational programs	102	19.4
3) research program	79	15.0
4) academic difficulties	76	14.4
5) personal and/or family reasons	194	36.8
6) financial difficulties	30	5.7
7) other	56	10.6
No response	15	2.8
REMINDER: More than one response per respondent was possible for this item.		
b. Number of months you were absent:__		
Not applicable (Did not interrupt medical studies)	7855	
1-3	166	31.5
4-6	104	19.7
7-9	42	8.0
10-12	121	23.0
13-18	22	4.2
19-24	18	3.4
25-30	5	0.9
31 or more	16	3.0
No response	33	6.3
c. If less than an academic year, when did your absence occur (Circle one):		
Not applicable (Did not interrupt medical studies)	7855	
1) during the first academic year	30	5.7
2) during the second academic year	90	17.1
3) during the third academic year	158	30.0
4) during the fourth academic year	36	6.8
5) during the fifth academic year	1	0.2
6) during the sixth academic year	1	0.2
No response	211	40.0
d. If an entire academic year or more, when did your absence occur (Circle one):		
Not applicable (Did not interrupt medical studies)	7855	
1) prior to the second academic year	47	8.9
2) prior to the third academic year	101	19.2
3) prior to the fourth academic year	34	6.5
4) prior to the fifth academic year	4	0.8
5) prior to the sixth academic year	3	0.6
No response	338	64.1

	ALL SCHOOLS Number	Percent
6. Did you at any time during your medical studies repeat academic work (Circle one):		
1) Yes	1011	12.1
2) No	7270	86.7
No response	101	1.2

If yes, please indicate below the number of each type of activity you were required to repeat and/or you voluntarily repeated:

Number required to repeat:		One	Two	Three	Four or more
Exam(s)_____	All Schools	417	168	70	61
Basic Science Course(s)_____	All Schools	194	54	27	66
Clinical Clerkship(s)_____	All Schools	133	13	2	26

Number repeated voluntarily:		One	Two	Three or more
Exam(s)_____	All Schools	45	16	15
Basic Science Course(s)_____	All Schools	23	11	16
Clinical Clerkship(s)_____	All Schools	26	3	7

REMINDER: More than one response per respondent was possible for this item.

7. Please indicate the number of courses/clerkships which, within the general requirements of your school's curriculum, you elected to take (that is, were not strictly required, but chose to take) in any of the areas listed below. (Include specialized courses/clerkships under the more general category listed. For example, include "renal transplant surgery" under "general surgery".)

	ALL SCHOOLS Number	ALL SCHOOLS Percent
Questionnaire respondents who answered Question 7 :	8331	99.4

		Number of Individuals Who Took Indicated Number of Electives in Area						Total Individuals Who Took Elective(s) in Area	
		No. Not Specified	1	2	3	4	5	6+	Number	Percent
01) Anatomy	All Schools	481	415	68	18	7	3	2	994	11.9
02) Biochemistry	All Schools	206	203	40	7	3	1	3	463	5.5
03) Genetics	All Schools	156	172	4	1	0	0	0	333	4.0
04) Microbiology	All Schools	205	237	34	3	0	0	2	481	5.7
05) Neurosciences	All Schools	193	202	59	11	1	2	1	469	5.6
06) Pathology	All Schools	738	547	124	42	16	3	6	1476	17.6
07) Pharmacology	All Schools	247	261	49	28	2	0	2	589	7.0
08) Physiology	All Schools	205	209	47	29	5	2	5	502	6.0
09) Social and Behavioral Sciences	All Schools	229	187	82	25	7	4	5	539	6.4
10) Anesthesiology	All Schools	1265	779	41	4	1	0	3	2093	25.0
11) Community medicine	All Schools	372	276	54	10	2	2	2	718	8.6
12) Dermatology	All Schools	1596	969	23	2	2	2	0	2594	30.9
13) Family medicine	All Schools	1096	603	159	37	9	3	8	1915	22.8
14) Internal medicine	All Schools	1752	974	338	90	48	18	22	3242	38.7
15) Neurology	All Schools	1255	894	75	15	2	1	3	2245	26.8
16) Obstetrics-Gynecology	All Schools	938	608	102	24	16	1	1	1690	20.2
17) Ophthalmology	All Schools	1065	634	43	7	3	1	3	1756	20.9
18) Otolaryngology	All Schools	882	546	19	3	1	0	0	1451	17.3

Question 7 continues on next page of this report.

(Question 7 continued)

		Number of Individuals Who Took Indicated Number of Electives in Area							Total Individuals Who Took Elective(s) in Area	
		No. Not Specified	1	2	3	4	5	6+	Number	Percent
19) Pediatrics	All Schools	1069	717	181	60	25	14	15	2081	24.8
20) Adolescent medicine	All Schools	104	64	2	1	0	0	1	172	2.1
21) Neonatology	All Schools	404	283	2	0	0	0	1	690	8.2
22) Physical medicine/rehabilitation	All Schools	157	114	4	3	0	0	1	279	3.3
23) Preventive medicine	All Schools	61	52	4	1	0	0	1	119	1.4
24) Psychiatry	All Schools	487	378	91	36	11	4	6	1013	12.1
25) Public health	All Schools	99	53	7	2	1	1	1	164	2.0
26) Radiology	All Schools	3163	2009	127	17	7	4	2	5329	63.6
27) General surgery	All Schools	878	572	142	31	14	1	2	1640	19.6
28) Neurological surgery	All Schools	324	194	10	2	1	0	0	531	6.3
29) Orthopedic surgery	All Schools	1111	674	84	17	2	0	0	1888	22.5
30) Plastic surgery	All Schools	296	168	7	0	0	0	1	472	5.6
31) Thoracic surgery	All Schools	258	164	13	1	0	0	0	436	5.2
32) Urology	All Schools	663	374	9	1	0	0	0	1047	12.5
33) Allergy	All Schools	148	92	2	0	0	1	0	243	2.9
34) Cardiology	All Schools	3303	2030	131	23	9	1	1	5498	65.6
35) Clinical pharmacology	All Schools	173	172	5	1	0	0	1	352	4.2
36) Endocrinology and Metabolism	All Schools	873	637	33	11	7	1	1	1563	18.6
37) Gastroenterology	All Schools	988	652	15	0	2	0	0	1657	19.8
38) Hematology	All Schools	953	669	14	2	4	0	0	1642	19.6
39) Immunology	All Schools	198	130	11	5	2	1	0	347	4.1
40) Infectious diseases	All Schools	1526	1074	21	2	4	1	4	2632	31.4

Question 7 continues on next page of this report.

(Question 7 continued)

		Number of Individuals Who Took Indicated Number of Electives in Area							Total Individuals Who Took Elective(s) in Area	
		No. Not Specified	1	2	3	4	5	6+	Number	Percent
41) Nephrology	All Schools	1315	867	18	1	2	0	1	2204	26.3
42) Oncology	All Schools	551	368	24	2	1	0	1	947	11.3
43) Pulmonary diseases	All Schools	1239	832	19	0	2	0	1	2093	25.0
44) Rheumatology	All Schools	553	383	2	1	0	0	0	939	11.2
45) Alcoholism	All Schools	107	77	2	0	0	0	0	186	2.2
46) Computer medicine	All Schools	65	46	6	0	2	0	0	119	1.4
47) Drug abuse	All Schools	57	36	1	0	0	0	0	107	1.3
48) Ethical problems in medicine	All Schools	195	197	18	6	1	0	0	417	5.0
49) Emergency medicine	All Schools	1775	1141	62	3	1	0	1	3046	36.3
50) Geriatrics	All Schools	44	34	0	0	0	0	1	79	0.9
51) Human sexuality	All Schools	281	259	6	2	1	0	0	644	7.7
52) Intensive care medicine	All Schools	738	494	10	1	0	0	1	1244	14.8
53) Medical economics	All Schools	38	33	4	0	0	0	0	134	1.6
54) Medical jurisprudence	All Schools	135	129	2	0	0	0	0	266	3.2
55) Nutrition	All Schools	288	225	17	1	2	0	0	593	7.1
56) Occupational medicine	All Schools	30	18	0	0	0	0	0	48	0.6
57) Thanatology	All Schools	32	36	0	0	0	0	0	133	1.6
58) Other	All Schools	771	199	51	10	2	1	0	1034	12.3

REMINDER: More than one response per respondent was possible for this item.

		ALL SCHOOLS Number	Percent
Number of individuals who took electives in:	1 area	68	0.8
	2 areas	125	1.5
	3 areas	257	3.1
	4 areas	496	5.9
	5 areas	846	10.1
	6 or more areas	6539	78.0
Mean number of elective areas per individual:		8.1	

		ALL SCHOOLS Number	Percent
8. Please indicate the activities in which you participated while in medical school. (Circle the code numbers of all which are applicable):			
01) independent study for credit		1139	13.6
02) ambulatory primary care clerkship at medical school		3182	38.0
clinical educational experiences remote from the medical school:			
03) in rural community		2623	31.3
04) in inner-city community		1134	13.5
05) military or other governmental (such as Indian Health Service)		683	8.1
06) abroad		535	6.4
elective at another academic medical center:			
07) basic science elective		210	2.5
08) clinical elective		4164	49.7
09) organized peer review of medical practice		88	1.0
10) formal specialty track (e.g., surgery) prior to fulfilling requirements for the M.D. program		536	6.4
11) research project as an investigator		2038	24.3
12) authorship (sole or joint) of research paper		1300	15.5
13) paid employment for limited clinical services:		1730	20.6
hours per week:	1- 5	199	11.5
	6-10	402	23.2
	11-15	229	13.2
	16-20	160	9.2
	21-25	56	3.2
	26-30	54	3.1
	31-35	17	1.0
	36-40	312	18.0
	41 or more	171	9.9
	No response	130	7.5
weeks per year:	1- 4	171	9.9
	5- 8	279	16.1
	9-12	218	12.6
	13-15	31	1.8
	16-18	21	1.2
	19-21	70	4.0
	22-24	21	1.2
	25-27	51	2.9
	28-30	71	4.1
	31-33	9	0.5
	34-36	33	1.9
	37-39	1	0.1
	40-42	116	6.7
	43-45	15	0.9
	46-49	20	1.2
	50-52	431	24.9
	No response	172	9.9
number of years:	1	936	54.1
	2	340	19.7
	3	106	6.1
	4 or more	55	3.2
	No response	293	16.9
**hours per year:	mean	433	
	standard deviation	391	
**total hours during medical school:	mean	744	
	standard deviation	998	
**NOTE: These data were not reported as such by respondents, but were calculated from the preceding items (which were reported directly by respondents).			
14) None of the above		734	8.8
No response		197	2.4

REMINDER: More than one response per respondent was possible for this item.

9. How much emphasis was given by the instructional program to each of the following factors during YOUR MEDICAL SCHOOL TRAINING (Circle one code number for each factor):

		Emphasis During Medical School					
		No Response	Major 3	Moderate 2	Minor 1	None 0	Mean Rating
01) patient interviewing skills	All Schools	38	3303	3953	1046	42	2.3
02) diagnostic skills	All Schools	49	3637	4056	631	9	2.4
03) therapeutic management	All Schools	73	2827	4578	886	18	2.2
04) management of patients' socio-economic, educational and emotional problems	All Schools	63	535	2575	4539	670	1.4
05) preventive care	All Schools	91	239	2208	4888	956	1.2
06) care of ambulatory patients	All Schools	56	813	3808	3426	279	1.6
07) care of hospitalized patients	All Schools	40	6618	1645	74	5	2.8
08) drug effects and clinical pharmacology	All Schools	65	1422	4613	2179	103	1.9
09) medical record-keeping skills	All Schools	59	944	2915	3335	1129	1.4
10) practice management skills	All Schools	107	395	1359	2594	3927	0.8
11) physician self-evaluation and independent learning skills	All Schools	81	506	2016	3699	2080	1.1
12) teamwork with other health professionals	All Schools	53	951	3159	3266	953	1.5
13) public health and community medicine	All Schools	56	348	2137	4574	1267	1.2
14) research techniques	All Schools	71	372	1024	3674	3241	0.8
15) basic medical sciences information	All Schools	93	3601	3736	863	89	2.3
16) behavioral sciences information	All Schools	73	1148	4087	2842	232	1.7
17) clinical sciences information	All Schools	68	4665	3276	336	37	2.5
18) medical care cost control	All Schools	60	164	1732	4398	2028	1.0
19) care of the elderly	All Schools	62	212	1987	4413	1708	1.1
20) nutrition	All Schools	100	118	1461	5232	1471	1.0
21) other	All Schools	8150	73	40	37	82	1.4

	ALL SCHOOLS Number	Percent
10a. Please indicate with check marks whether you have taken (or plan to take) the NBME Examinations:		
Part I:		
Yes- As a Candidate	6537	78.0
Yes- As a Non-Candidate	900	10.7
No	340	4.1
No response	605	7.2
Part II:		
Yes- As a Candidate	6458	77.0
Yes- As a Non-Candidate	810	9.7
No	375	4.5
No response	739	8.8
Part III:		
Yes- As a Candidate	4689	55.9
Yes- As a Non-Candidate	121	1.4
No	701	8.4
No Response	2871	34.3
b. May we obtain your scores to use only in aggregation with the scores of other medical students for the purposes of research in medical education (Circle one):		
Not applicable (Does not plan to take any of the NBME's)	298	
1) Yes	4946	61.2
2) No	2459	30.4
No response	679	8.4
c. If yes, please give your NBME ID No. and sign below indicating that you request the NBME to release your scores to the AAMC:		
Not applicable (Does not plan to take any of the NBME's or responded 'No' to part b. above)	2757	
Signed	4521	91.4
Did not sign	425	8.6

II. PLANS FOR GRADUATE MEDICAL EDUCATION

11a. What do you expect will be the nature of your first year after graduating from medical school (Circle only one code number):		
1) licensure and practice	27	0.3
2) non-licensed employment (paid or unpaid)	43	0.5
first year residency as defined by NRMP:		
3) categorical (entirely in a single field)	5006	59.7
4) categorical* (some diversity, but major assignments fulfill requirements for a single specialty)	2232	26.6
5) flexible (broad clinical base for entry to two or more specialties)	669	8.0
6) undecided	43	0.5
7) other	74	0.9
No response	288	3.4

Question 11 continues on next page of this report.

	ALL SCHOOLS Number	Percent
(Question 11 continued)		
b. If you are not planning to take a residency your first year after graduation, i.e. you indicated (1),(2),(6), or (7) above, please proceed to question 13.		
If you are planning to take a residency your first year after graduation, i.e. you indicated (3),(4), or (5) above, are you seeking a reduced-schedule residency? (Circle one)		
Not Applicable (Not planning to take residency in first post-graduate year)	187	
1) Yes	69	0.8
2) No (Please proceed to question 12)	7061	86.2
No response	1065	13.0
If yes:		
1. Are you planning to (or did you) participate in the NRMP minimatch for a shared-schedule position (Circle one):		
1) Yes	24	34.8
2) No	35	50.7
No response	10	14.5
2. Have you arranged (or are you planning to arrange) a reduced-schedule position outside the NRMP minimatch (Circle one):		
1) Yes (Check one)	13	18.8
1) Shared-schedule	8	61.5
2) Other part-time schedule	4	30.8
No response	1	7.7
2) No	41	59.4
No response	15	21.7
3. Please explain your reasons for seeking a reduced-schedule position (please print):		
(A separate analysis of these results may be available at a later date.)		
4. Please indicate the total number of years of reduced-schedule residency training you plan to take:__		
1 year	8	11.6
2 years	8	11.6
3 years	2	2.9
4 years	3	4.3
5 years	0	0.0
6 or more years	0	0.0
No response	48	69.6
5. Please indicate the total number of years of full-time residency training you plan to take: __		
1 year	1	1.4
2 years	10	14.5
3 years	21	30.4
4 years	10	14.5
5 years	6	8.7
6 or more years	3	4.3
No response	18	26.1

12a. If you plan to take a residency your first year after graduation, please circle the code number of only your first choice in the specialty list which follows:

	ALL SCHOOLS Number	Percent
Not applicable (Does not plan to take a residency during first post-graduate year)	187	
01) Anesthesiology	154	1.9
02) Dermatology	25	0.3
03) Emergency medicine	68	0.8
04) Family medicine	1302	15.9
05) General practice	5	0.1
06) Internal medicine	2573	31.4
07) Neurological surgery	42	0.5
08) Neurology	49	0.6
09) Obstetrics/Gynecology	614	7.5
10) Ophthalmology	76	0.9
11) Otolaryngology	65	0.8
12) Pathology	176	2.1
13) Pediatrics	778	9.5
14) Physical medicine and rehabilitation	20	0.2
15) Psychiatry	279	3.4
16) Radiology - general	2	0.0
17) Radiology - diagnostic	205	2.5
18) Radiology - therapeutic	11	0.1
19) Surgery - general	855	10.4
20) Surgery - orthopedic	274	3.3
21) Urology	47	0.6
22) Flexible	383	4.7
23) Other	35	0.4
No response	157	1.9

Question 12 continues on next page of this report.

(Question 12 continued)

b. Please indicate the city and state of the hospital in which you would most like to take your first-year of graduate medical education:

	ALL SCHOOLS Number	Percent
Not applicable (Does not plan to take a residency during first post-graduate year)	187	
State in Which Hospital is Located		
Alabama	104	1.3
Alaska	1	0.0
Arizona	120	1.5
Arkansas	46	0.6
California	1034	12.6
Colorado	149	1.8
Connecticut	168	2.1
Delaware	10	0.1
District of Columbia	158	1.9
Florida	179	2.2
Georgia	150	1.8
Hawaii	63	0.8
Idaho	5	0.1
Illinois	315	3.8
Indiana	134	1.6
Iowa	101	1.2
Kansas	68	0.8
Kentucky	61	0.7
Louisiana	114	1.4
Maine	33	0.4
Maryland	135	1.6
Massachusetts	432	5.3
Michigan	314	3.8
Minnesota	268	3.3
Mississippi	37	0.5
Missouri	198	2.4
Montana	0	0.0
Nebraska	26	0.3
Nevada	0	0.0
New Hampshire	17	0.2
New Jersey	63	0.8
New Mexico	44	0.5
New York	744	9.1
North Carolina	272	3.3
North Dakota	9	0.1
Ohio	238	2.9
Oklahoma	68	0.8
Oregon	66	0.8
Pennsylvania	486	5.9
Rhode Island	32	0.4
South Carolina	104	1.3
South Dakota	12	0.1
Tennessee	141	1.7
Texas	451	5.5
Utah	95	1.2
Vermont	27	0.3
Virginia	183	2.2
Washington	255	3.1
West Virginia	29	0.4
Wisconsin	152	1.9
Wyoming	3	0.0
Puerto Rico	66	0.8
U.S. Territory or Possession	1	0.0
Foreign	11	0.1
No Response	203	2.5

	ALL SCHOOLS Number	Percent
13a. If your response to question 11a. was either (3) or (4),i.e. that you are planning to take a categorical or categorical* residency your first year after graduation, please proceed to question 14 on page 4.		
Otherwise,please indicate the expected nature of your second year after graduation (Circle only one):		
Not applicable (Planning a first year 'categorical' or 'categorical*' residency as indicated in item 11)	7238	
1) licensure and practice	67	5.9
2) non-licensed employment (paid or unpaid)	16	1.4
GME residency as defined by NRMP		
3) categorical (entirely in a single field)	369	32.3
4) categorical* (some diversity, but major assignments fulfill requirements for a single specialty)	71	6.2
5) flexible (broad clinical base for entry to two or more specialties)	29	2.5
6) undecided	90	7.9
7) other	65	5.7
No response	437	38.2
b. If you answered "3","4" or "5" in 13a.,i.e. that you plan to begin a residency your second year after graduation, please indicate the code number of your first choice (from the Residency Specialty List on page 3.) (__)		
Not applicable (Not planning any type of residency during second post-graduate year)	675	
01) Anesthesiology	33	7.0
02) Dermatology	17	3.6
03) Emergency medicine	42	9.0
04) Family medicine	46	9.8
05) General practice	2	0.4
06) Internal medicine	38	8.1
07) Neurological surgery	1	0.2
08) Neurology	11	2.3
09) Obstetrics/Gynecology	24	5.1
10) Ophthalmology	72	15.4
11) Otolaryngology	5	1.1
12) Pathology	9	1.9
13) Pediatrics	16	3.4
14) Physical medicine and rehabilitation	1	0.2
15) Psychiatry	10	2.1
16) Radiology-general	3	0.6
17) Radiology-diagnostic	35	7.5
18) Radiology-therapeutic	3	0.6
19) Surgery-general	19	4.1
20) Surgery-orthopedic	28	6.0
21) Urology	2	0.4
22) Flexible	4	0.9
23) Other	8	1.7
No response	40	8.5

	ALL SCHOOLS Number	Percent
14. Do your graduate medical education plans include a research fellowship (Circle one):		
1) Yes	1929	23.0
2) No	6288	75.0
No response	165	2.0
If yes, on which one of the following areas will it focus (Circle only one code number):		
Not applicable (Does not plan to take a research fellowship)	6453	
01) basic medical sciences	174	9.0
02) clinical medicine	913	47.3
03) health care delivery and/or social services	47	2.4
04) a combination of two or more of the above	551	28.6
05) undecided	168	8.7
06) other	43	2.2
No response	33	1.7
15. How many years of residency training do you plan to take (Circle only one code number):		
0) none	19	0.2
1) 1 year	33	0.4
2) 2 years	49	0.6
3) 3 years	4126	49.2
4) 4 years	1924	23.0
5) 5 years	1399	16.7
6) 6 years or more	477	5.7
7) undecided	310	3.7
No response	45	0.5
Mean number of years	3.7	

16. How much influence did each of the following factors have on your choice of the HOSPITAL AND PROGRAM where you would like to take your first graduate year (Circle one code number for each factor):

		Influence on Hospital Choice					
		No Resp	Major 3	Moderate 2	Minor 1	None 0	Mean Rating
01) service commitment for financial aid received	All Schools	242	460	579	1229	5872	0.5
02) patient population	All Schools	153	2545	3804	1322	558	2.0
03) availability of part-time residencies	All Schools	209	47	125	467	7534	0.1
04) percentage of foreign physicians on house staff	All Schools	199	838	1617	1826	3902	0.9
05) hospital in which you would like to take second and/or subsequent years of residency	All Schools	162	4336	2055	629	1200	2.2
06) ambience of hospital and attitude of its personnel	All Schools	118	4967	2502	573	222	2.5
07) information about or from house staff	All Schools	115	5001	2643	454	169	2.5
08) educational merit of the program	All Schools	110	6223	1840	142	67	2.7
09) general reputation of the program	All Schools	111	5070	2621	459	121	2.5
10) geographic location in which you might like to establish yourself	All Schools	132	4092	2093	1320	745	2.2

Question 16 continues on next page of this report.

(Question 16 continued)

		No Resp	Influence on Hospital Choice: Major 3	Moderate 2	Minor 1	None 0	Mean Rating
11) attractive geographic location, but do not intend to settle there	All Schools	222	1953	2474	1495	2238	1.5
12) desire to work with a particular person or group	All Schools	138	986	1655	2213	3390	1.0
13) desire to work in a hospital affiliated with your medical school	All Schools	152	524	806	1220	5680	0.5
14) desire to work in a hospital <u>not</u> affiliated with your medical school	All Schools	202	1451	1504	1215	4010	1.0
15) nature of facilities	All Schools	133	3530	3697	720	302	2.3
16) on call/vacation schedule for residents	All Schools	111	1406	3196	2612	1057	1.6
17) degree of autonomy in patient care	All Schools	128	2701	4031	1076	446	2.1
18) amount of stipend	All Schools	128	396	2121	3489	2248	1.1
19) spouse or spouse-to-be on house staff of that or nearby hospital	All Schools	169	567	194	255	7197	0.3
20) spouse or spouse-to-be employed or studying in area	All Schools	218	1531	882	545	5206	0.8
21) advice of designated advisor	All Schools	145	436	1626	1801	4374	0.8
22) advice of other medical school faculty	All Schools	171	571	2052	2016	3572	1.0
23) casual information from other medical students	All Schools	174	436	2310	2709	2753	1.1
24) preference of spouse or spouse-to-be	All Schools	243	1335	1716	931	4157	1.0
25) other	All Schools	7408	265	61	25	623	1.0

	ALL SCHOOLS Number	Percent
17a. Do you plan to seek certification in a specialty (Circle one):		
1) Yes	7814	93.2
2) No (please proceed to question 19)	438	5.2
No response	130	1.6

b. With regard to the specialty in which you plan to seek certification:
If you have <u>decided definitely on a specialty</u>, please indicate the code number of the specialty (and the letter(s) of the subspecialty(ies) if any) in which you plan to become certified. Use the Specialty Certification List below:
(__)(_)

If you are <u>undecided as to specialty</u>, please indicate the number(s) of the specialty(ies)(and the letter(s) of the subspecialty(ies) if any) in which you believe you may seek certification. Use the Specialty Certification List below:

Most likely choice: (__)(_)
Possible choice: (__)(_)
Possible choice: (__)(_)

Question 17 continues on next page of this report. (See also Appendix B for Supplementary Analysis.)

(Question 17 continued)

Specialty Certification List		Decided Definitely		Undecided as to Specialty: Most likely		Possible		Possible	
		No.	%	No.	%	No.	%	No.	%
01) Family Practice	All Schools	1193	15.3	187	2.4	128	1.6	62	0.8
02) Internal Medicine	All Schools	945	12.1	295	3.8	148	1.9	51	0.7
a. Cardiovascular Disease	All Schools	80	1.0	246	3.1	144	1.8	55	0.7
b. Endocrinology and Metabolism	All Schools	35	0.4	75	1.0	81	1.0	61	0.8
c. Gastroenterology	All Schools	29	0.4	91	1.2	75	1.0	65	0.8
d. Hematology	All Schools	15	0.2	75	1.0	80	1.0	40	0.5
e. Infectious Disease	All Schools	22	0.3	65	0.8	103	1.3	60	0.8
f. Medical Oncology	All Schools	22	0.3	44	0.6	49	0.6	36	0.5
g. Nephrology	All Schools	15	0.2	42	0.5	73	0.9	60	0.8
h. Pulmonary Disease	All Schools	13	0.2	54	0.7	67	0.9	44	0.6
i. Rheumatology	All Schools	11	0.1	43	0.6	60	0.8	64	0.8
03) Allergy and Immunology	All Schools	3	0.0	10	0.1	22	0.3	20	0.3
04) Dermatology	All Schools	69	0.9	21	0.3	39	0.5	32	0.4
05) Pediatrics	All Schools	446	5.7	104	1.3	68	0.9	40	0.5
a. Cardiology	All Schools	8	0.1	18	0.2	24	0.3	10	0.1
b. Endocrinology	All Schools	10	0.1	14	0.2	15	0.2	12	0.2
c. Hematology-Oncology	All Schools	16	0.2	25	0.3	12	0.2	6	0.1
d. Nephrology	All Schools	2	0.0	9	0.1	10	0.1	6	0.1
e. Neonatal-Perinatal Medicine	All Schools	11	0.1	30	0.4	23	0.3	15	0.2
06) Obstetrics & Gynecology	All Schools	360	4.6	40	0.5	41	0.5	40	0.5
a. Gynecologic Oncology	All Schools	31	0.4	20	0.3	18	0.2	14	0.2
b. Maternal & Fetal Medicine	All Schools	79	1.0	38	0.5	35	0.4	16	0.2
c. Reproductive Endocrinology	All Schools	68	0.9	36	0.5	27	0.3	12	0.2

Question 17 continues on next page of this report.

(Question 17 continued)

		Decided Definitely		Undecided as to Specialty: Most likely		Possible		Possible	
		No.	%	No.	%	No.	%	No.	%
Specialty Certification List (continued)									
07) Psychiatry	All Schools	208	2.7	55	0.7	39	0.5	34	0.4
a. Child Psychiatry	All Schools	41	0.5	15	0.2	25	0.3	9	0.1
08) Neurology	All Schools	94	1.2	30	0.4	48	0.6	28	0.4
a. Child Neurology	All Schools	15	0.2	10	0.1	9	0.1	10	0.1
09) Pathology	All Schools	161	2.1	29	0.4	16	0.2	20	0.3
10) Physical Medicine & Rehabilitation	All Schools	23	0.3	4	0.1	4	0.1	5	0.1
11) Ophthalmology	All Schools	200	2.6	30	0.4	20	0.3	22	0.3
12) Anesthesiology	All Schools	160	2.0	31	0.4	32	0.4	23	0.3
13) Surgery	All Schools	363	4.6	126	1.6	71	0.9	45	0.6
a. Pediatric Surgery	All Schools	25	0.3	19	0.2	27	0.3	13	0.2
14) Colon & Rectal Surgery	All Schools	0	0.0	5	0.1	16	0.2	12	0.2
15) Neurological Surgery	All Schools	51	0.7	8	0.1	15	0.2	7	0.1
16) Orthopedic Surgery	All Schools	324	4.1	67	0.9	47	0.6	32	0.4
17) Otolaryngology	All Schools	112	1.4	21	0.3	18	0.2	10	0.1
18) Plastic Surgery	All Schools	63	0.8	24	0.3	42	0.5	27	0.3
19) Thoracic Surgery	All Schools	38	0.5	34	0.4	47	0.6	30	0.4
20) Urology	All Schools	70	0.9	18	0.2	11	0.1	12	0.2
21) Preventive Medicine	All Schools	9	0.1	7	0.1	16	0.2	14	0.2
22) Radiology	All Schools	254	3.3	53	0.7	48	0.6	46	0.6
23) Nuclear Medicine	All Schools	3	0.0	0	0.0	6	0.1	5	0.1
24) Emergency Medicine	All Schools	82	1.0	54	0.7	83	1.1	93	1.2

	ALL SCHOOLS Number	Percent
Individuals who have decided definitely on a specialty/subspecialty	5779	74.0
Individuals undecided as to specialty/subspecialty who are considering:		
one specialty/subspecialty	289	3.7
two specialties/subspecialties	674	8.6
three specialties/subspecialties	1295	16.6

18. Of how much importance was each of the following in your choice of specialty (Circle the ONE code which applies in EACH row):

		No Resp	Influence on Specialty Choice: Much 3	Some 2	Little 1	None 0	Mean Rating
01) medical school faculty	All Schools	453	1984	3042	1674	1229	1.7
02) other medical student(s)	All Schools	457	263	1873	3051	2738	1.0
03) spouse	All Schools	489	398	1344	1557	4594	0.7
04) other family members	All Schools	458	360	1037	1902	4625	0.6
05) friends who are not in medicine	All Schools	475	124	640	1772	5371	0.4
06) length of residency program	All Schools	477	342	1732	2323	3508	0.9
07) positive clinical experience(s) in chosen specialty	All Schools	446	5322	1886	421	307	2.5
08) negative clinical experience(s) in other than chosen specialty	All Schools	479	1721	2575	1971	1636	1.6
09) type of usual practice/schedule in the specialty	All Schools	464	2556	2879	1569	914	1.9
10) financial advantages	All Schools	483	469	1859	2982	2589	1.0
11) work experience prior to medical school	All Schools	461	1025	1201	1464	4231	0.9
12) intellectual challenge of subject matter of specialty	All Schools	453	4209	2813	593	314	2.4
13) a practicing physician who is not a faculty member	All Schools	485	1219	1447	1281	3950	1.0
14) society's need for M.D.'s in the specialty	All Schools	476	1437	2336	1883	2250	1.4
15) type of patient	All Schools	471	2957	2896	1094	964	2.0
16) type of physicians who will be colleagues in the specialty	All Schools	459	2376	3036	1510	1001	1.9
17) opportunities for career advancement	All Schools	481	1428	2873	2129	1471	1.5
18) opportunities for self-fulfillment	All Schools	474	5955	1675	157	121	2.7
19) other factor	All Schools	7667	349	45	16	305	1.6

III. POST GRADUATE CAREER PLANS

	ALL SCHOOLS Number	Percent
19a. How extensively do you expect to be involved in research during your medical career (Circle only one code number):		
1) exclusively	14	0.2
2) significantly involved (several years set aside for full-time research or 25% or more of continuous career devoted to research pursuits)	714	8.5
3) somwhat involved (one year or less set aside for research or less than 25% of continuous career)	2242	26.7
4) involved in a limited way (e.g. occasional cooperation with clinical trials of new drugs or medical devices in my practice)	3988	47.6
5) not involved	1305	15.6
No response	119	1.4
b. How extensively would you like to be involved in research during your medical career (Indicate one of the above code numbers):(_)		
1) exclusively	41	0.5
2) significantly involved (several years set aside for full-time research or 25% or more of continuous career devoted to research pursuits)	943	11.3
3) somwhat involved (one year or less set aside for research or less than 25% of continuous career)	2524	30.1
4) involved in a limited way (e.g. occasional cooperation with clinical trials of new drugs or medical devices in my practice)	3372	40.2
5) not involved	907	10.8
No response	595	7.1

20. How much influence did each of the following factors have on your expectations of personal research involvement (Circle one number for each factor):

		Influence on Expectations for Research Involvement					
		No Resp	Major 3	Moderate 2	Minor 1	None 0	Mean Rating
01) research experience while a pre-medical or medical student	All Schools	323	2503	2076	1267	2213	1.6
02) financial disadvantages of research career	All Schools	338	341	1163	2274	4266	0.7
03) challenge of search for new knowledge	All Schools	351	1604	2388	2007	2032	1.4
04) societal need for practitioners	All Schools	362	1594	2323	1911	2192	1.4
05) availability of research training support	All Schools	392	489	1537	2463	3501	0.9
06) obligation to "pay back" research training support by continued research activity	All Schools	371	175	572	1761	5503	0.4
07) uncertain availability of research funds after completion of training	All Schools	376	511	1173	1880	4442	0.7
08) increasing frustrations of researchers in conducting clinical research	All Schools	393	675	1453	1935	3926	0.9
09) opportunity to work in academic community	All Schools	401	1528	2076	1640	2737	1.3
10) other factors	All Schools	7210	400	58	73	641	1.2

21. Please indicate your first, second and third preferences for the different career activities listed below by writing their code numbers on the lines below:
first choice: (__) second choice: (__) third choice: (__)

CAREER ACTIVITY		First CHOICES No.	First %	Second No.	Second %	Third No.	Third %
Full-time academic faculty appointment:							
01) basic science teaching and research (e.g., anatomy, biochemistry)	All Schools	80	1.0	100	1.2	79	0.9
02) clinical science teaching and research, including patient care(e.g., internal medicine, surgery)	All Schools	1562	18.6	922	11.0	1098	13.1
Salaried research scientist (e.g., in pharmaceutical industry, federal agency, state agency):							
03) basic medical sciences	All Schools	8	0.1	45	0.5	62	0.7
04) clinical sciences	All Schools	30	0.4	135	1.6	189	2.3
Private clinical practice (e.g., in a private office, paid by fee-for-service):							
05) alone	All Schools	315	3.8	313	3.7	857	10.2
06) in partnership with one other physician	All Schools	895	10.7	2040	24.3	760	9.1
07) in a group of three or more physicians	All Schools	3523	42.0	1566	18.7	860	10.3
08) undecided among 5,6, and 7	All Schools	794	9.5	434	5.2	523	6.2
Salaried clinical practice, employed by:							
09) hospital	All Schools	507	6.0	1107	13.2	1262	15.1
10) prepaid group clinic	All Schools	364	4.3	1084	12.9	1201	14.3
11) state or federal agency (e.g., VA, Armed Forces, Public Health Service)	All Schools	168	2.0	298	3.6	550	6.6
12) Administration- no practice (e.g. hospital administrator, state or federal agency administrator, association or academic executive, business executive)	All Schools	20	0.2	26	0.3	201	2.4
No Response	All Schools	116	1.4	312	3.7	740	8.8

22. Please indicate in which one of the regions listed below you presently plan to practice or be employed (Circle only one code number):

	ALL SCHOOLS Number	Percent
01) Northeast (Maine,N.H.,Vt.,Mass.,Conn.,R.I.,N.Y.,N.J.,Pa.,Del., Md.,D.C.)	2113	25.2
02) South (Va.,W.Va.,Ky.,Tenn.,N.C.,S.C.,Ga.,Ala.,Fla.,Miss.,Ark., La.,Okla.,Texas,Puerto Rico)	1867	22.3
03) Midwest (Ohio,Ind.,Ill.,Wisc.,Minn.,Mich.,Iowa,Mo.,Kansas,Neb., N.D.,S.D.)	1483	17.7
04) West (Colo.,N.Mex.,Utah,Ariz.,Nev.,Calif.,Wash.,Ore.,Idaho,Mont., Wyo.,Alaska,Hawaii,U.S. Territories and Canal Zone)	1764	21.0
05) Foreign	62	0.7
06) Undecided	961	11.5
07) Not applicable (please explain)	50	0.6
No response	82	1.0

Question 22 continues on next page of this report

(Question 22 continued)

	ALL SCHOOLS Number	Percent
If, at this time, you intend to practice or be employed in a particular state or non-U.S. location, please indicate the code from the State Code List on page 3:		
Alabama	13	0.2
Alaska	3	0.0
Arizona	15	0.2
Arkansas	34	0.4
California	221	2.6
Colorado	23	0.3
Connecticut	12	0.1
Delaware	2	0.0
District of Columbia	10	0.1
Florida	45	0.5
Georgia	23	0.3
Hawaii	23	0.3
Idaho	5	0.1
Illinois	48	0.6
Indiana	12	0.1
Iowa	21	0.3
Kansas	7	0.1
Kentucky	21	0.3
Louisiana	41	0.5
Maine	13	0.2
Maryland	19	0.2
Massachusetts	26	0.3
Michigan	49	0.6
Minnesota	47	0.6
Mississippi	24	0.3
Missouri	31	0.4
Montana	8	0.1
Nebraska	6	0.1
Nevada	1	0.0
New Hampshire	3	0.0
New Jersey	10	0.1
New Mexico	20	0.2
New York	98	1.2
North Carolina	42	0.5
North Dakota	3	0.0
Ohio	31	0.4
Oklahoma	18	0.2
Oregon	20	0.2
Pennsylvania	57	0.7
Rhode Island	5	0.1
South Carolina	20	0.2
South Dakota	9	0.1
Tennessee	23	0.3
Texas	121	1.4
Utah	9	0.1
Vermont	4	0.0
Virginia	30	0.4
Washington	30	0.4
West Virginia	14	0.2
Wisconsin	26	0.3
Wyoming	4	0.0
Puerto Rico	17	0.2
U.S. Territory or Possession	4	0.0
Foreign	24	0.3
No Response	6937	82.8

23. Please indicate the setting in which you would most like to practice following completion of your medical training (Circle only one code number):

	ALL SCHOOLS Number	Percent
01) deprived inner city area of large city (population 500,000 or more)	342	4.1
02) other city area of large city (population 500,000 or more)	1099	13.1
03) suburb of a large city	848	10.1
04) city of moderate size (population 50,000 to 500,000)	2128	25.4
05) suburb of moderate size city	540	6.4
06) small city (population 10,000 to 50,000 - other than suburb)	1551	18.5
07) town (population 2,500 to 10,000 - other than suburb)	675	8.1
08) small town (population less than 2,500)	150	1.8
09) rural/unincorporated area	116	1.4
10) undecided or no preference	723	8.6
11) other	83	1.0
No response	127	1.5

24. If you were making the choice today, how important would each of the following factors be in your choice of work location (Circle the ONE number which best applies in EACH row):

		No Resp	Influence on Work Location: Much 3	Some 2	Little 1	None 0	Mean Rating
01) personal ties or contact with the community (family,friends,etc.)	All Schools	69	4053	3206	825	229	2.3
02) preference of spouse	All Schools	128	3849	2362	248	1795	2.0
03) professional ties or contacts in the community	All Schools	88	2389	3992	1282	631	2.0
04) recruitment by the community	All Schools	132	724	3443	2768	1315	1.4
05) characteristics of the community (cultural, educational, recreational, etc.)	All Schools	80	5986	2128	134	54	2.7
06) geographic or regional location	All Schools	63	5725	2331	221	42	2.7
07) size of community	All Schools	75	3655	3988	552	112	2.3
08) financial advantages	All Schools	79	1470	4221	2060	552	1.8
09) opportunity to serve a particular group of people	All Schools	95	1313	3114	2815	1045	1.6
10) best opportunity available in desired type of career	All Schools	119	3104	3221	1441	497	2.1
11) availability of adequate hospital facilities	All Schools	85	4897	2963	355	82	2.5
12) opportunity to affiliate with outstanding hospital	All Schools	100	2640	3061	1878	703	1.9
13) location of work experience prior to medical school	All Schools	154	727	1902	2592	3007	1.0
14) any other factor	All Schools	7854	125	42	41	320	0.9

IV. DEMOGRAPHIC AND FINANCIAL INFORMATION

	ALL SCHOOLS Number	Percent
25. Please indicate your marital status (Circle only one code number):		
1) never married *	3485	41.6
2) separated * proceed to	65	0.8
3) divorced * Question 31	223	2.7
4) widowed *	9	0.1
5) commitment to be married * proceed to	847	10.1
6) married * Question 26	3586	42.8
No response	167	2.0
a. Year of marriage: 19__		
Not applicable (Not married or did not indicate marital status)	4796	
Before 1964	72	2.0
1964-1968	46	1.3
1969	66	1.8
1970	84	2.3
1971	130	3.6
1972	189	5.3
1973	201	5.6
1974	324	9.0
1975	557	15.5
1976	629	17.5
1977	558	15.6
1978	588	16.4
1979	53	1.5
No response	89	2.5
b. Is this your first marriage (Circle one):		
Not applicable (Not married or did not indicate marital status)	4796	
1) Yes	3186	88.8
2) No	118	3.3
No response	282	7.9
26. Please indicate the highest level of education your spouse or spouse-to-be has completed (Circle only one code number):		
Not applicable (Neither married nor committed to be married)	3949	
1) eighth grade or less	1	0.0
2) some high school	7	0.2
3) high school graduate	91	2.1
4) specialized business or technical training (beyond high school)	107	2.4
5) some college (inc. associate degree)	464	10.5
6) completed college (B.A., B.S., or R.N.)	1535	34.6
7) some graduate or professional school (requiring work beyond college graduation)	742	16.7
8) master's (Please specify field)	596	13.4
9) doctorate (Please circle code letter of area of degree):	813	18.3
a. Medical (M.D.,D.O)	507	62.4
b. Legal (J.D.,L.L.D.)	113	13.9
c. Dental (D.D.S.,D.D.M.)	21	2.6
d. Other	164	20.2
No response	8	1.0
No response	77	0.9
27a. Is your spouse or spouse-to-be currently enrolled in an educational program (Circle one):		
Not applicable (Neither married nor committed to be married)	3949	
1) Yes	1598	36.0
2) No	2794	63.0
No response	41	0.9
b. If yes, please circle the one code listed below which best describes his/her status:		
Not applicable	6784	
1) M.D./D.O. in residency training	240	15.0
2) medical student	460	28.8
3) full-time student in other health field	182	11.4
4) full-time student in non-health field	302	18.9
5) part-time student in other health field	98	6.1
6) part-time student in non-health field	301	18.8
No response	15	0.9

	ALL SCHOOLS Number	Percent
28a. Did your spouse or spouse-to-be work for pay during any portion of your medical school career (Circle only one code number):		
Not applicable (Neither married nor committed to be married)	3949	
1) Yes, mainly full-time	2744	61.9
2) Yes, mainly part-time	875	19.7
3) No	764	17.2
No response	50	1.1
b. Did your spouse or spouse-to-be work primarily (Circle one):		
Not applicable (Neither married nor committed to be married or spouse did not work)	4713	
1) out of need to meet expenses	1902	51.8
2) by choice (e.g. to pursue own career)	1644	44.8
No response	123	3.4
c. Is it likely that he/she will work after you have completed your graduate medical education and are in practice or otherwise employed (Circle one):		
Not applicable (Neither married nor committed to be married)	3949	
1) Yes	3420	77.1
2) No	884	19.9
No response	129	2.9
29. Please indicate your spouse or spouse-to-be's present occupation (Circle only one code number):		
Not applicable (Neither married nor committed to be married)	3949	
01) clerical or sales worker	249	5.6
02) farmer, farm manager, farm foreman	5	0.1
03) farm laborer	1	0.0
04) physician (M.D., D.O.)	471	10.6
05) registered nurse	471	10.6
06) health professional (e.g., dentist, optometrist, pharmacist, podiatrist, veterinarian)	130	2.9
07) other health professional requiring certification (e.g., medical technologist)	301	6.8
08) health worker - other than above	139	3.1
09) owner/manager - small business	19	0.4
10) manager, administrator, executive - corporate business (nonfarm)	188	4.2
11) other business positions (e.g., accountant, analyst, programmer, researcher)	254	5.7
12) full-time homemaker	188	4.2
13) professional (e.g., clergy, engineer, lawyer, teacher)	966	21.8
14) sales (active soliciting, e.g., insurance, real estate, automobile, other products)	30	0.7
15) skilled worker, craftsman	31	0.7
16) transport or equipment operator	1	0.0
17) unskilled worker, laborer, private household worker (nonfarm)	9	0.2
18) full-time student	436	9.8
19) other	458	10.3
No response	86	1.9
30. Indicate where your spouse or spouse-to-be spent the major portion of his/her high school years (Circle only one code number):		
Not applicable (Neither married nor committed to be married)	3949	
1) deprived inner city area of large city (population 500,000 or more)	97	2.2
2) other city area of large city (population 500,000 or more)	703	15.9
3) suburb of a large city	1101	24.8
4) city of moderate size (population 50,000 to 500,000)	779	17.6
5) suburb of moderate size city	247	5.6
6) small city (population 10,000 to 50,000- other than suburb)	648	14.6
7) town (population 2,500 to 10,000- other than suburb)	441	9.9
8) small town (population less than 2,500)	234	5.3
9) rural/unincorporated area	132	3.0
No response	51	1.2

	ALL SCHOOLS Number	Percent
31. Please indicate number of dependents you have (do not include yourself or your spouse) (If none, please indicate with a zero): __		
0	6891	82.2
1	715	8.5
2	329	3.9
3	85	1.0
4 or more	22	0.3
No response	340	4.1

32a. Please indicate below (to the nearest hundred dollars) the amounts of any educational loans which either you or your spouse (or spouse-to-be) are legally required to repay. (Where none, please indicate with a zero.):

Individuals who did not respond to question:	355	4.2
Individuals who responded to question and had NO EDUCATIONAL LOAN for either college or medical school, for self or spouse:	1969	23.5
Individuals who responded to question and had EDUCATIONAL LOAN for either college or medical school, for self or spouse:	6058	72.3

AMOUNT OF LOANS (in hundreds of dollars)

		N	Mean#	Standard Deviation	Percentiles* 10th	20th	30th	40th	50th	60th	70th	80th	90th
Respondent's Loans:													
For College	All Schools	2268	32	32	6	10	15	20	25	30	39	50	60
For Medical School	All Schools	5557	138	87	30	58	81	100	130	150	176	200	250
TOTAL	All Schools	5817	146	94	32	60	89	110	138	160	189	220	270
Spouse/to-be's Loans:													
For College	All Schools	980	33	30	8	10	15	20	25	30	40	50	70
For Medical School	All Schools	669	117	85	20	40	50	75	100	120	150	200	240
TOTAL	All Schools	1491	77	83	10	17	24	30	45	60	90	130	200
Respondent + Spouse/to-be's Loans:													
For College	All Schools	2847	37	36	7	10	16	20	30	35	44	52	75
For Medical School	All Schools	5668	149	101	33	60	90	109	139	155	190	220	280
TOTAL	All Schools	6058	159	111	32	60	90	116	149	170	200	240	300

Excludes individuals with no loan of indicated type.

* Percentiles not calculated where fewer than 10 respondents reported loan. The percentile indicates the percentage of persons who reported a loan less than the amount shown (in hundreds).

	ALL SCHOOLS Number	Percent
b. If you received any scholarships for your medical school training, please indicate the types (do not indicate loans) by circling the code numbers of all which are applicable:		
1) Armed Forces	516	6.2
2) NHSC (PHS)	476	5.7
3) State (Please specify state)	889	10.6
4) School-awarded	2008	24.0
5) Other	738	8.8
No response	4604	54.9

	ALL SCHOOLS Number	Percent
33a. Are you a U.S. citizen (Circle one):		
1) Yes	8254	98.5
2) No	90	1.1
No response	38	0.5
If not, what type of visa do you hold (Circle only one code):		
Not applicable (U.S. Citizen)	8254	
(F1) Student/4 year	14	10.9
(J1) Exchange student/1 year	10	7.8
(PR) Permanent Resident	24	18.8
(OT) Other Visa Type	15	11.7
No response	65	50.8
b. How do you identify yourself (Circle only one code):		
Not a U.S. Citizen or "no response" to citizenship in 33a.	128	
(B) Black, not of Hispanic origin	282	3.4
(I) American Indian or Alaskan native	34	0.4
(W) White, not of Hispanic origin	7064	85.6
(O) Asian or Pacific Islander	193	2.3
Hispanic:	268	3.2
(M) Mexican American/Chicano	77	28.7
(P) Puerto Rican (Mainland)	31	11.6
(R) Puerto Rican (Commonwealth)	78	29.1
(H) Other Hispanic	82	30.6
No response	413	5.0
34. Data release		
1) Signed	8382	100.0
2) Not signed	0	0.0
Commented on medical school strengths and weaknesses:		
Yes	4574	54.6
No	3808	45.4

APPENDIX A

aamc association of american medical colleges

December, 1978

A Request From: John A.D. Cooper, M.D., President, AAMC
Peter Shields, Chairperson, Organization of Student Representatives (OSR)

TO: Medical Students Graduating in 1979

How and why physicians choose particular careers and particular modes and places of practice is of great concern to the Association of American Medical Colleges and the nation's medical schools. Your preparation for a career in medicine has now progressed to the point that you will soon be granted the M.D. degree. During your years in medical school you have become more sophisticated about the career opportunities in medicine than you were when you applied and were admitted to medical school.

The AAMC is very interested in identifying the type of career you are now planning in order to compare it with the career plans and other information you supplied to AAMC when you applied to medical school. The information requested in this questionnaire on your career plans and on factors in your medical school experience which reinforced or changed your original plans will assist us and the medical schools in modifying curricula and course work so that medical education can better serve both future students and the future needs of the country for physicians and medical services.

Your accurate and candid answers to the questions being asked will be kept in strict confidence. Reports derived from these questions will not personally identify you as an individual nor your school.

When you have completed the questionnaire, seal it in the enclosed envelope along with the page on medical school strengths and weaknesses (if you completed it). Write your name on the envelope so that its receipt may be recorded and return it to the Dean's office for forwarding unopened along with the other envelopes from your graduating class.

We appreciate your willingness to invest your time in reporting your career plans and your assessment of your undergraduate medical education.

Suite 200/One Dupont Circle, N.W./Washington, D.C. 20036/(202) 466-5100

FORM I

MEDICAL STUDENT GRADUATION QUESTIONNAIRE

Your cooperation in completing this questionnaire is crucial to the ultimate utility of the data. Please answer each question as precisely as you can. The data which you supply will be aggregated with those of other students graduating from medical school this year and in future years. Aggregated data, by definition, do not permit the identification of individual respondents. Thank you for your cooperation.

Name: _____ Social Security Number: ___/__/____
Last First Middle (Maiden, if married woman)

Medical School Awarding Your M.D.: _____
(including campus, if applicable)

I. MEDICAL SCHOOL EXPERIENCE AND CURRICULUM

1. Month and Year You First Entered Medical School (either U.S. or foreign):

   ___ ___ / 19 ___ ___

2. Please circle the code number in the list below of the type of degree program from which you are graduating:

   (1) M.D.
   (2) joint bachelor's/M.D.
   (3) joint master's/M.D.*
   (4) joint J.D./M.D.
   (5) joint Ph.D./M.D.*
   (6) other *(please specify:* _____)

   *If joint master's or Ph.D., please give field of master's or Ph.D.:

   _____

3. a. What is the normal length of the degree program from which you are graduating:

   ___ _____ years

   b. Month and year your M.D. will be awarded:

   ___ ___ / 19 ___ ___

4. Listed below are routes of entrance to medical school which are less usual than that of entering medical school after college graduation. Please circle the code numbers of the ones, if any, which describe your entrance to the medical school from which you are graduating:

   (1) entered medical school directly from high school
   (2) entered after college matriculation but before graduation
   (3) transferred from one U.S. medical school to another
   (4) transferred from a non-U.S. medical school
   (5) admitted with advanced standing to year 2, 3 or 4 without prior enrollment in medical school

5. Did you at any time after you entered medical school interrupt your studies (for reasons other than vacation) *(Circle one):* (1) Yes (2) No

   a. If yes, what were the reasons? *(Circle the code numbers of all which are applicable):*

   (1) health reasons
   (2) special training or educational programs *(please specify:* _____)
   (3) research program
   (4) academic difficulties
   (5) personal and/or family reasons
   (6) financial difficulties
   (7) other *(please specify:* _____).

   b. Number of months you were absent: _____.

   c. If less than an academic year, when did your absence occur: *(Circle one):*

   (1) during the first academic year
   (2) during the second academic year
   (3) during the third academic year
   (4) during the fourth academic year
   (5) during the fifth academic year
   (6) during the sixth academic year.

   d. If an entire academic year or more, when did your absence occur: *(Circle one):*

   (1) prior to the second academic year
   (2) prior to the third academic year
   (3) prior to the fourth academic year
   (4) prior to the fifth academic year
   (5) prior to the sixth academic year.

6. Did you at any time during your medical studies repeat academic work: *(Circle one):* (1) Yes (2) No

   If yes, please indicate below the number of each type of activity you were required to repeat and/or you voluntarily repeated:

	Exam(s)	Basic Science Course(s)	Clinical Clerkship(s)
No. required to repeat	_____	_____	_____
No. repeated voluntarily	_____	_____	_____

Data Collection Clearance No. 0298-78

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7. Please indicate the number of courses/clerkships which, within the general requirements of your school's curriculum, you elected to take (that is, were not strictly required, but chose to take) in any of the areas listed below. (Include specialized courses/clerkships under the more general category listed. For example, include "renal transplant surgery" under "general surgery".)

(01)____ Anatomy
(02)____ Biochemistry
(03)____ Genetics
(04)____ Microbiology
(05)____ Neurosciences
(06)____ Pathology
(07)____ Pharmacology
(08)____ Physiology
(09)____ Social and behavioral sciences
(10)____ Anesthesiology
(11)____ Community medicine
(12)____ Dermatology
(13)____ Family medicine
(14)____ Internal medicine
(15)____ Neurology
(16)____ Obstetrics-Gynecology
(17)____ Ophthalmology
(18)____ Otolaryngology
(19)____ Pediatrics
(20)____ Adolescent medicine
(21)____ Neonatology
(22)____ Physical medicine and rehabilitation
(23)____ Preventive medicine
(24)____ Psychiatry
(25)____ Public health
(26)____ Radiology
(27)____ General surgery
(28)____ Neurological surgery
(29)____ Orthopedic surgery
(30)____ Plastic surgery
(31)____ Thoracic surgery
(32)____ Urology
(33)____ Allergy
(34)____ Cardiology
(35)____ Clinical pharmacology
(36)____ Endocrinology and Metabolism
(37)____ Gastroenterology
(38)____ Hematology
(39)____ Immunology
(40)____ Infectious diseases
(41)____ Nephrology
(42)____ Oncology
(43)____ Pulmonary diseases
(44)____ Rheumatology
(45)____ Alcoholism
(46)____ Computer medicine
(47)____ Drug abuse
(48)____ Ethical problems in medicine
(49)____ Emergency medicine
(50)____ Geriatrics
(51)____ Human sexuality
(52)____ Intensive care medicine
(53)____ Medical economics
(54)____ Medical jurisprudence
(55)____ Nutrition
(56)____ Occupational medicine
(57)____ Thanatology
(58)____ Other *(please specify:*

_____

_____

_____ /.

8. Please indicate the activities in which you participated while in medical school. *(Circle the code numbers of all which are applicable):*

(01) independent study for credit
(02) ambulatory primary care clerkship at medical school

clinical educational experiences remote from the medical school:
(03) in rural community
(04) in inner-city community
(05) military or other governmental (such as Indian Health Service)
(06) abroad

elective at another academic medical center:
(07) basic science elective
(08) clinical elective

(09) organized peer review of medical practice
(10) formal specialty track (e.g., surgery) prior to fulfilling requirements for the M.D. program
(11) research project as an investigator
(12) authorship (sole or joint) of research paper
(13) paid employment for limited clinical services:
hrs per wk: _____ wks per yr: _____ yrs: _____
(14) none of the above.

9. How much emphasis was given by the instructional program to each of the following factors during YOUR MEDICAL SCHOOL TRAINING *(Circle one code number for each factor):*

	Emphasis During Medical School			
	Major	Moderate	Minor	None
(01) patient interviewing skills	3	2	1	0
(02) diagnostic skills	3	2	1	0
(03) therapeutic management	3	2	1	0
(04) management of patients' socio-economic, educational and emotional problems	3	2	1	0
(05) preventive care	3	2	1	0
(06) care of ambulatory patients	3	2	1	0
(07) care of hospitalized patients	3	2	1	0
(08) drug effects and clinical pharmacology	3	2	1	0
(09) medical record-keeping skills	3	2	1	0
(10) practice management skills	3	2	1	0
(11) physician self-evaluation and independent learning skills	3	2	1	0
(12) teamwork with other health professionals	3	2	1	0
(13) public health and community medicine	3	2	1	0
(14) research techniques	3	2	1	0
(15) basic medical sciences information	3	2	1	0
(16) behavioral sciences information	3	2	1	0
(17) clinical sciences information	3	2	1	0
(18) medical care cost control	3	2	1	0
(19) care of the elderly	3	2	1	0
(20) nutrition	3	2	1	0
(21) other *(please specify:* _____	3	2	1	0

_____

_____ /.

10a. Please indicate with check marks whether you have taken (or plan to take) the NBME examinations:

	Yes		No
	As a Candidate	As a Non-Candidate	
Part I:	_____	_____	_____
Part II:	_____	_____	_____
Part III:	_____	_____	_____

b. May we obtain your scores to use only in aggregation with the scores of other medical students for the purposes of research in medical education *(Circle one)*:

(1) Yes (2) No

c. If yes, please give your NBME ID No. and sign below indicating that you request the NBME to release your scores to the AAMC:

NBME ID NO.: ___ ___ ___ ___ ___ ___

_____
Signature

II. PLANS FOR GRADUATE MEDICAL EDUCATION

11a. What do you expect will be the nature of your first year after graduating from medical school *(Circle only one code number)*:

(1) licensure and practice
(2) non-licensed employment (paid or unpaid)

first-year residency as defined by NRMP:
(3) categorical (entirely in a single field)
(4) categorical* (some diversity, but major assignments fulfill requirements for a single specialty)
(5) flexible (broad clinical base for entry to two or more specialties)

(6) undecided
(7) other *(please specify:* _____ *).*

b. If you are not planning to take a residency your first year after graduation, i.e. you indicated (1), (2), (6), or (7) above, please proceed to question 13.

If you are planning to take a residency your first year after graduation, i.e. you indicated (3), (4), or (5) above, are you seeking a reduced-schedule residency? *(Circle one)*
(1) Yes
(2) No (please proceed to question 12)

If yes:

1. Are you planning to (or did you) participate in the NRMP minimatch for a shared-schedule position: *(Circle one)*:
   (1) Yes
   (2) No

2. Have you arranged (or are you planning to arrange) a reduced-schedule position outside the NRMP minimatch: *(Circle one)*:
   (1) Yes *(Check one)*:
   Shared-schedule _____(1)
   Other part-time schedule _____(2)
   (2) No

3. Please explain your reasons for seeking a reduced-schedule position *(please print)*:

_____

_____

_____

4. Please indicate the total number of years of reduced-schedule residency training you plan to take: _____

5. Please indicate the total number of years of full-time residency training you plan to take: _____

12a. If you plan to take a residency your first year after graduation, please circle the code number of only your first choice in the specialty list which follows:

Residency Specialty List

(01) Anesthesiology
(02) Dermatology
(03) Emergency medicine
(04) Family practice
(05) General practice
(06) Internal medicine
(07) Neurological surgery
(08) Neurology
(09) Obstetrics/Gynecology
(10) Ophthalmology
(11) Otolaryngology
(12) Pathology
(13) Pediatrics
(14) Physical medicine and rehabilitation
(15) Psychiatry
(16) Radiology - general
(17) Radiology - diagnostic
(18) Radiology - therapeutic
(19) Surgery - general
(20) Surgery - orthopedic
(21) Urology
(22) Flexible
(23) Other *(please specify:* _____ *).*

b. Please indicate the city and state of the hospital in which you would most like to take your first-year of graduate medical education:

City: _____ State: _____
(Use Code from State Code List below)

State Code List

(AL) Alabama
(AK) Alaska
(AZ) Arizona
(AR) Arkansas
(CA) California
(CO) Colorado
(CT) Connecticut
(DE) Delaware
(DC) District of Columbia
(FL) Florida
(GA) Georgia
(HI) Hawaii
(ID) Idaho
(IL) Illinois
(IN) Indiana
(IA) Iowa
(KS) Kansas
(KY) Kentucky
(LA) Louisiana
(ME) Maine
(MD) Maryland
(MA) Massachusetts
(MI) Michigan
(MN) Minnesota
(MS) Mississippi
(MO) Missouri
(MT) Montana
(NE) Nebraska
(NV) Nevada
(NH) N. Hampshire
(NJ) New Jersey
(NM) New Mexico
(NY) New York
(NC) N. Carolina
(ND) North Dakota
(OH) Ohio
(OK) Oklahoma
(OR) Oregon
(PA) Pennsylvania
(RI) Rhode Island
(SC) S. Carolina
(SD) South Dakota
(TN) Tennessee
(TX) Texas
(UT) Utah
(VT) Vermont
(VA) Virginia
(WA) Washington
(WV) West Virginia
(WI) Wisconsin
(WY) Wyoming
(PR) Puerto Rico
(TP) U.S. Territory or Possession

(FR) Foreign *(Please specify:* _____ *).*

13a. If your response to question 11a. was either (3) or (4), i.e. that you are planning to take a categorical or categorical* residency your first year after graduation, please proceed to question 14 on page 4.

Otherwise, please indicate the expected nature of your second year after graduation *(Circle only one)*:

(1) licensure and practice
(2) non-licensed employment (paid or unpaid)

GME residency as defined by NRMP
(3) categorical (entirely in a single field)
(4) categorical* (some diversity, but major assignments fulfill requirements for a single specialty)
(5) flexible (broad clinical base for entry to two or more specialties)

(6) undecided
(7) other *(please specify:* _____ *).*

(Question 13 continues at the top of page 4.)

(13. cont'd.)

b. If you answered "3", "4" or "5" in 13a., i.e. that you plan to begin a residency your second year after graduation, please indicate the code number of your first choice (from the Residency Specialty List on page 3.)

(____ ____)

14. Do your graduate medical education plans include a research fellowship *(Circle one)*:

(1) Yes
(2) No

If yes, on which one of the following areas will it focus *(Circle only one code number)*:

(1) basic medical sciences
(2) clinical medicine
(3) health care delivery and/or social services
(4) a combination of two or more of the above
(5) undecided
(6) other *(please specify:* _____ *)*.

15. How many years of residency training do you plan to take *(Circle only one code number)*:

(0) none
(1) 1 year
(2) 2 years
(3) 3 years
(4) 4 years
(5) 5 years
(6) 6 years or more
(7) undecided

16. How much influence did each of the following factors have on your choice of the hospital and program where you would like to take your first graduate year *(Circle one code number for each factor)*:

	Influence on Hospital Choice			
	Major	Moderate	Minor	None
(01) service commitment for financial aid received	3	2	1	0
(02) patient population	3	2	1	0
(03) availability of part-time residencies	3	2	1	0
(04) percentage of foreign physicians on house staff	3	2	1	0
(05) hospital in which you would like to take second and/or subsequent years of residency	3	2	1	0
(06) ambience of hospital and attitude of its personnel	3	2	1	0
(07) information about or from house staff	3	2	1	0
(08) educational merit of the program	3	2	1	0
(09) general reputation of the program	3	2	1	0
(10) geographic location in which you might like to establish yourself	3	2	1	0
(11) attractive geographic location, but do not intend to settle there	3	2	1	0
(12) desire to work with a particular person or group	3	2	1	0
(13) desire to work in a hospital affiliated with your medical school	3	2	1	0
(14) desire to work in a hospital not affiliated with your medical school	3	2	1	0
(15) nature of facilities	3	2	1	0

(Please continue at top of next column)

(16. cont'd.)

	Influence on Hospital Choice			
	Major	Moderate	Minor	None
(16) on call/vacation schedule for residents	3	2	1	0
(17) degree of autonomy in patient care	3	2	1	0
(18) amount of stipend	3	2	1	0
(19) spouse or spouse-to-be on house staff of that or nearby hospital	3	2	1	0
(20) spouse or spouse-to-be employed or studying in area	3	2	1	0
(21) advice of designated advisor	3	2	1	0
(22) advice of other medical school faculty	3	2	1	0
(23) casual information from other medical students	3	2	1	0
(24) preference of spouse or spouse-to-be	3	2	1	0
(25) other *(please specify:* _____	3	2	1	0

_____ *)*.

17a. Do you plan to seek certification in a specialty *(Circle one)*:

(1) Yes
(2) No (please proceed to question 19)

b. With regard to the specialty in which you plan to seek certification:
If you have decided definitely on a specialty, please indicate the code number of the specialty (and the letter(s) of the subspecialty(ies) if any) in which you plan to become certified. Use the Specialty Certification List below:

(____ ____) (____)

If you are undecided as to specialty, please indicate the number(s) of the specialty(ies) (and the letter(s) of the subspecialty(ies) if any) in which you believe you may seek certification. Use the Specialty Certification List below:

Most likely choice: (____ ____) (____)
Possible choice: (____ ____) (____)
Possible choice: (____ ____) (____)

Specialty Certification List

(01) Family Practice
(02) Internal Medicine
  a. Cardiovascular Disease
  b. Endocrinology and Metabolism
  c. Gastroenterology
  d. Hematology
  e. Infectious Disease
  f. Medical Oncology
  g. Nephrology
  h. Pulmonary Disease
  i. Rheumatology
(03) Allergy and Immunology
(04) Dermatology
(05) Pediatrics
  a. Cardiology
  b. Endocrinology
  c. Hematology-Oncology
  d. Nephrology
  e. Neonatal-Perinatal Medicine
(06) Obstetrics & Gynecology
  a. Gynecologic Oncology
  b. Maternal & Fetal Medicine
  c. Reproductive Endocrinology
(07) Psychiatry
  a. Child Psychiatry
(08) Neurology
  a. Child Neurology
(09) Pathology
(10) Physical Medicine & Rehabilitation
(11) Ophthalmology
(12) Anesthesiology
(13) Surgery
  a. Pediatric Surgery
(14) Colon & Rectal Surgery
(15) Neurological Surgery
(16) Orthopedic Surgery
(17) Otolaryngology
(18) Plastic Surgery
(19) Thoracic Surgery
(20) Urology
(21) Preventive Medicine
(22) Radiology
(23) Nuclear Medicine
(24) Emergency Medicine

18. Of how much importance was each of the following factors in your choice of specialty *(Circle the ONE code which applies in EACH row)*:

	Influence on Specialty Choice			
	Much	Some	Little	None
(01) medical school faculty	3	2	1	0
(02) other medical student(s)	3	2	1	0
(03) spouse	3	2	1	0
(04) other family members	3	2	1	0
(05) friends who are not in medicine	3	2	1	0
(06) length of residency program	3	2	1	0
(07) positive clinical experience(s) in chosen specialty	3	2	1	0
(08) negative clinical experience(s) in other than chosen specialty	3	2	1	0
(09) type of usual practice/schedule in the specialty	3	2	1	0
(10) financial advantages	3	2	1	0
(11) work experience prior to medical school	3	2	1	0
(12) intellectual challenge of subject matter of specialty	3	2	1	0
(13) a practicing physician who is not a faculty member	3	2	1	0
(14) society's need for M.D.'s in the specialty	3	2	1	0
(15) type of patient	3	2	1	0
(16) type of physicians who will be colleagues in the specialty	3	2	1	0
(17) opportunities for career advancement	3	2	1	0
(18) opportunities for self-fulfillment	3	2	1	0
(19) other factor *(please specify:* _____	3	2	1	0

_____).

III. POST GRADUATE CAREER PLANS

19a. How extensively do you expect to be involved in research during your medical career *(Circle only one code number)*:

(1) exclusively
(2) significantly involved (several years set aside for full-time research or 25% or more of continuous career devoted to research pursuits)
(3) somewhat involved (one year or less set aside for research or less than 25% of continuous career)
(4) involved in a limited way (e.g. occasional cooperation with clinical trials of new drugs or medical devices in my practice)
(5) not involved

b. How extensively would you like to be involved in research during your medical career (Indicate one of the above code numbers):

(____)

20. How much influence did each of the following factors have on your expectations of personal research involvement *(Circle one number for each factor)*:

	Influence on Expectations for Research Involvement			
	Major	Moderate	Minor	None
(01) research experience while a pre-medical or medical student	3	2	1	0
(02) financial disadvantages of research career	3	2	1	0
(03) challenge of search for new knowledge	3	2	1	0
(04) societal need for practitioners	3	2	1	0
(05) availability of research training support	3	2	1	0
(06) obligation to "pay back" research training support by continued research activity	3	2	1	0
(07) uncertain availability of research funds after completion of training	3	2	1	0
(08) increasing frustrations of researchers in conducting clinical research	3	2	1	0
(09) opportunity to work in academic community	3	2	1	0
(10) other factors *(please specify:* _____	3	2	1	0

_____

_____).

21. Please indicate your first, second and third preferences for the different career activities listed below by writing their code numbers on the lines below:

first choice: (____ ____)

second choice: (____ ____)

third choice: (____ ____)

Full-time academic faculty appointment:
(01) basic science teaching and research (e.g., anatomy, biochemistry)
(02) clinical science teaching and research, including patient care (e.g., internal medicine, surgery)

Salaried research scientist (e.g., in pharmaceutical industry, federal agency, state agency):
(03) basic medical sciences
(04) clinical sciences

Private clinical practice (e.g., in a private office, paid by fee-for-service):
(05) alone
(06) in partnership with one other physician
(07) in a group of 3 or more physicians
(08) undecided among 5, 6 and 7

Salaried clinical practice, employed by:
(09) hospital
(10) prepaid group clinic
(11) state or federal agency (e.g., VA, Armed Forces, Public Health Service)

(12) Administration - No practice (e.g., hospital administrator, state or federal agency administrator, association or academic executive, business executive).

22. Please indicate in which one of the regions listed below you presently plan to practice or be employed *(Circle only one code number)*:

(1) Northeast (Maine, N.H., Vt., Mass., Conn., R.I., N.Y., N.J., Pa., Del., Md., D.C.)
(2) South (Va., W.Va., Ky., Tenn., N.C., S.C., Ga., Ala., Fla., Miss., Ark., La., Okla., Texas, Puerto Rico)
(3) Midwest (Ohio, Ind., Ill., Wisc., Minn., Mich., Iowa, Mo., Kansas, Neb., N.D., S.D.)
(4) West (Colo., N. Mex., Utah, Ariz., Nev., Calif., Wash., Ore., Idaho, Mont., Wyo., Alaska, Hawaii, U.S. Territories and Canal Zone)
(5) Foreign
(6) Undecided
(7) Not applicable *(please explain:* _____ *).*

If, at this time, you intend to practice or be employed in a particular state or non-U.S. location, please indicate the code from the State Code List on page 3:

_____

23. Please indicate the setting in which you would most like to practice following completion of your medical training *(Circle only one code number)*:

(01) deprived inner city area of large city (population 500,000 or more)
(02) other city area of large city (population 500,000 or more)
(03) suburb of a large city
(04) city of moderate size (population 50,000 to 500,000)
(05) suburb of moderate size city
(06) small city (population 10,000 to 50,000 – other than suburb)
(07) town (population 2,500 to 10,000 – other than suburb)
(08) small town (population less than 2,500)
(09) rural/unincorporated area
(10) undecided or no preference
(11) other *(please specify:* _____ *).*

24. If you were making the choice today, how important would each of the following factors be in your choice of work location *(Circle the ONE number which best applies in EACH row)*:

		Influence on Work Location			
		Much	Some	Little	None
(01)	personal ties or contact with the community (family, friends, etc.)	3	2	1	0
(02)	preference of spouse	3	2	1	0
(03)	professional ties or contacts in the community	3	2	1	0
(04)	recruitment by the community	3	2	1	0
(05)	characteristics of the community (cultural, educational, recreational, etc.)	3	2	1	0
(06)	geographic or regional location	3	2	1	0
(07)	size of community	3	2	1	0
(08)	financial advantages	3	2	1	0
(09)	opportunity to serve a particular group of people	3	2	1	0
(10)	best opportunity available in desired type of career	3	2	1	0
(11)	availability of adequate hospital facilities	3	2	1	0
(12)	opportunity to affiliate with outstanding hospital	3	2	1	0
(13)	location of work experience prior to medical school	3	2	1	0
(14)	any other factor *(please specify:* _____ *)*	3	2	1	0

_____ *).*

IV. DEMOGRAPHIC AND FINANCIAL INFORMATION

25. Please indicate your marital status: *(Circle only one code number)*

(1) never married
(2) separated
(3) divorced
(4) widowed
proceed to Question 31

(5) commitment to be married
(6) married
Year of marriage: 19 ____ ____
Is this your first marriage *(Circle one)*:
(1) Yes (2) No
proceed to Question 26

26. Please indicate the highest level of education your spouse or spouse-to-be has completed *(Circle only one code number)*:

(1) eighth grade or less
(2) some high school
(3) high school graduate
(4) specialized business or technical training (beyond high school)
(5) some college (inc. associate degree)
(6) completed college (B.A., B.S. or R.N.)
(7) some graduate or professional school (requiring work beyond college graduation)
(8) master's *(please specify field:* _____
(9) doctorate *(Please circle code letter of area of degree)*:
a. Medical (M.D., D.O.)
b. Legal (J.D., L.L.D.)
c. Dental (D.D.S., D.D.M.)
d. Other *(specify degree and field:* _____ *).*

27a. Is your spouse or spouse-to-be currently enrolled in an educational program *(Circle one)*:
(1) Yes
(2) No

b. If yes, please circle the one code listed below which best describes his/her status:
(1) M.D./D.O. in residency training
(2) medical student
(3) full-time student in other health field
(4) full-time student in non-health field
(5) part-time student in other health field
(6) part-time student in non-health field

28a. Did your spouse or spouse-to-be work for pay during any portion of your medical school career *(Circle only one code number)*:
(1) Yes, mainly full-time
(2) Yes, mainly part-time
(3) No

b. Did your spouse or spouse-to-be work primarily *(Circle one)*:
(1) out of need to meet expenses
(2) by choice (e.g., to pursue own career).

c. Is it likely that he/she will work after you have completed your graduate medical education and are in practice or otherwise employed *(Circle one)*:
(1) Yes
(2) No

29. Please indicate your spouse or spouse-to-be's occupation *(Circle only one code number):*

(01) clerical or sales worker
(02) farmer, farm manager, farm foreman
(03) farm laborer
(04) physician (M.D., D.O.)
(05) registered nurse
(06) health professional (e.g., dentist, optometrist, pharmacist, podiatrist, veterinarian)
(07) other health professional requiring certification (e.g., medical technologist)
(08) health worker – other than above
(09) owner/manager – small business
(10) manager, administrator, executive – corporate business (nonfarm)
(11) other business positions (e.g., accountant, analyst, programmer, researcher)
(12) full-time homemaker
(13) professional (e.g., clergy, engineer, lawyer, teacher)
(14) sales (active soliciting, e.g., insurance, real estate, automobile, other products)
(15) skilled worker, craftsman
(16) transport or equipment operator
(17) unskilled worker, laborer, private household worker (nonfarm)
(18) full-time student
(19) other *(please specify:* _____ *).*

30. Indicate where your spouse or spouse-to-be spent the major portion of his/her high school years *(Circle only one code number):*

(1) deprived inner city area of large city (population 500,000 or more)
(2) other city area of large city (population 500,000 or more)
(3) suburb of a large city
(4) city of moderate size (population 50,000 to 500,000)
(5) suburb of moderate size city
(6) small city (population 10,000 to 50,000 – other than suburb)
(7) town (population 2,500 to 10,000 – other than suburb)
(8) small town (population less than 2,500)
(9) rural/unincorporated area.

31. Please indicate number of dependents you have (do not include yourself or your spouse) *(If none, please indicate with a zero.):*

_____

32a. Please indicate below (to the nearest hundred dollars) the amounts of any educational loans which either you or your spouse (or spouse-to-be) are legally required to repay. *(Where none, please indicate with a zero.):*

	You	Your Spouse or Spouse-to-be
Loans for premedical education/college	$_____	$_____
Loans for medical school	_____	_____
Total	_____	_____

b. If you received any scholarships for your medical school training, please indicate the types (do not indicate loans) by circling the code numbers of all which are applicable:

(1) Armed Forces
(2) NHSC (PHS)
(3) State (please specify the state using the State Code List on page 3: _____)
(4) School-awarded
(5) Other *(please specify:* _____ *).*

33a. Are you a U.S. citizen *(Circle one):* (1) Yes (2) No

If not, what type of visa do you hold *(Circle only one code):*

(F1) Student/4 year
(J1) Exchange student/1 year
(PR) Permanent Resident
(OT) Other Visa Type

b. How do you identify yourself *(Circle only one code):*

(B) Black, not of Hispanic origin
(I) American Indian or Alaskan native
(W) White, not of Hispanic origin
(O) Asian or Pacific Islander
Hispanic:
(M) Mexican American/Chicano
(P) Puerto Rican (Mainland)
(R) Puerto Rican (Commonwealth)
(H) Other Hispanic.

34. I am providing this information to the AAMC for the purpose of research in medical education and related areas with the understanding that the information will not be disclosed by the AAMC to other organizations or persons in any form which would permit personal identification of me.

_____ Date

_____ Signature

FORM I

(Form II was identical except that item 34 permitted information to also be sent to the student's medical school.)

STRENGTHS AND WEAKNESSES OF MEDICAL SCHOOL FROM WHICH YOU ARE GRADUATING

If completed, this page will be sent to your medical school without any identification of you. If you do not wish the school to have it, do not complete this form, since no other use will be made of it.

Name of School: _____
(including campus, if applicable)

A. Please comment on what you perceive to be the strengths of the medical school from which you are graduating.

B. Please comment on what you perceive to be the weaknesses of the medical school from which you are graduating.

AAMC #0298-78

APPENDIX B

Association of American Medical Colleges

1979 Medical Student Graduation Questionnaire Survey

Supplementary Analysis of Certification Plans (Question 17)

for

ALL SCHOOLS

	ALL SCHOOLS Number	Percent
17a. Do you plan to seek certification in a specialty (Circle one):		
1) Yes	7814	93.2
2) No (please proceed to question 19)	438	5.2
No response	130	1.6

b. With regard to the specialty in which you plan to seek certification:
If you have decided definitely on a specialty, please indicate the code number of the specialty (and the letter(s) of the subspecialty(ies) if any) in which you plan to become certified. Use the Specialty Certification List below:
(__)(_)

If you are undecided as to specialty, please indicate the number(s) of the specialty(ies)(and the letter(s) of the subspecialty(ies) if any) in which you believe you may seek certification. Use the Specialty Certification List below:

Most likely choice: (__)(_)

N.B. "Possible choice"(s) have been eliminated from this analysis.

Specialty/Subspecialty		Decided Definitely No.	%	Undecided but Most Likely No.	%	Total Definite or Most likely No.	%
01) Family Practice	All Schools	1203	20.6	184	9.3	1387	17.8
02) Internal Medicine	All Schools	957	16.4	271	13.7	1228	15.7
a. Cardiovascular Disease	All Schools	81	1.4	194	9.8	275	3.5
b. Endocrinology and Metabolism	All Schools	37	.6	61	3.1	98	1.3
c. Gastroenterology	All Schools	30	.5	74	3.8	104	1.3
d. Hematology	All Schools	15	.3	62	3.1	77	1.0
e. Infectious Disease	All Schools	22	.4	61	3.1	83	1.1
f. Medical Oncology	All Schools	23	.4	35	1.8	58	.7
g. Nephrology	All Schools	15	.3	33	1.7	48	.6
h. Pulmonary Disease	All Schools	14	.2	49	2.5	63	.8
i. Rheumatology	All Schools	11	.2	37	1.9	48	.6
03) Allergy and Immunology	All Schools	3	.1	9	.5	12	.2
04) Dermatology	All Schools	70	1.2	20	1.0	90	1.2

Question 17 continues on next page of this report.

(Question 17 continued)

Specialty/Subspecialty (continued)		Decided Definitely No.	%	Undecided but Most Likely No.	%	Total Definite or Most likely No.	%
05) Pediatrics	All Schools	454	7.8	98	5.0	552	7.1
a. Cardiology	All Schools	8	.1	11	.6	19	.2
b. Endocrinology	All Schools	10	.2	11	.6	21	.3
c. Hematology-Oncology	All Schools	16	.3	18	.9	34	.4
d. Nephrology	All Schools	2	.0	6	.3	8	.1
e. Neonatal-Perinatal Medicine	All Schools	11	.2	25	1.3	36	.5
06) Obstetrics & Gynecology	All Schools	361	6.2	36	1.8	397	5.1
a. Gynecologic Oncology	All Schools	31	.5	13	.7	44	.6
b. Maternal & Fetal Medicine	All Schools	79	1.4	27	1.4	106	1.4
c. Reproductive Endocrinology	All Schools	68	1.2	27	1.4	95	1.2
07) Psychiatry	All Schools	211	3.6	52	2.6	263	3.4
a. Child Psychiatry	All Schools	41	.7	11	.6	52	.7
08) Neurology	All Schools	94	1.6	29	1.5	123	1.6
a. Child Neurology	All Schools	15	.3	8	.4	23	.3
09) Pathology	All Schools	162	2.8	31	1.6	193	2.5
10) Physical Medicine & Rehabilitation	All Schools	23	.4	4	.2	27	.3
11) Ophthalmology	All Schools	205	3.5	29	1.5	234	3.0
12) Anesthesiology	All Schools	161	2.8	31	1.6	192	2.5
13) Surgery	All Schools	367	6.3	122	6.2	489	6.3
a. Pediatric Surgery	All Schools	25	.4	16	.8	41	.5

Question 17 continues on next page of this report.

(Question 17 continued)

Specialty/Subspecialty (continued)		Decided Definitely No.	%	Undecided but Most Likely No.	%	Total Definite or Most likely No.	%
14) Colon & Rectal Surgery	All Schools	0	.0	5	.3	5	.1
15) Neurological Surgery	All Schools	51	.9	8	.4	59	.8
16) Orthopedic Surgery	All Schools	324	5.5	63	3.2	387	5.0
17) Otolaryngology	All Schools	112	1.9	18	.9	130	1.7
18) Plastic Surgery	All Schools	63	1.1	21	1.1	84	1.1
19) Thoracic Surgery	All Schools	39	.7	30	1.5	69	.9
20) Urology	All Schools	71	1.2	18	.9	89	1.1
21) Preventive Medicine	All Schools	10	.2	7	.4	17	.2
22) Radiology	All Schools	255	4.4	53	2.7	308	3.9
23) Nuclear Medicine	All Schools	3	.1	0	.0	3	.0
24) Emergency Medicine	All Schools	85	1.5	53	2.7	138	1.8
TOTAL	All Schools	5838	100.0	1971	100.0	7809	100.0

aamc association of american medical colleges

APPENDIX C

SELECTED RESULTS FROM THE 1979 GRADUATION QUESTIONNAIRE SURVEY*

QUESTION NUMBER

I. Medical School Experience and Curriculum

1. Eighty percent of respondents first entered medical school during the summer or fall of 1975.

2. Ninety-six percent were pursuing a straight M.D. program, with the remainder being in joint programs also awarding a bachelor's, master's, J.D. or Ph.D. degree.

3. Eight-six percent were in 4-year programs, 10% were in 3-year programs, and the remainder were in programs with a normal length of 5 to 8 years.

4. Although over 80% entered medical school after graduation from college, about 10% entered without a college degree and approximately 6% were admitted to their present school with advanced standing.

5. Six percent (527) interrupted their studies for reasons other than vacation, with 30 of them doing so due to financial difficulties.

6. Twelve percent repeated some academic work (exams or courses).

7. Most popular electives included Cardiology (taken by 66% of the respondents), Radiology (64%), Internal Medicine (39%), Emergency Medicine (36%), Infectious Diseases (31%), and Dermatology (31%).

8. Medical school activities:

   a. 50% had a clinical elective at another medical center
   b. 38% had an ambulatory primary care clerkship
   c. 31% had a clinical educational experience in a rural community
   d. 24% did a research project as an investigator
   e. 21% received pay for limited clinical services (e.g., externships) for an average of 744 hours
   f. 16% authored a research paper
   g. 14% did independent study for credit
   h. 14% had a clinical educational experience in an inner-city community remote from the medical school

*Prepared on 11/15/79 by Davis G. Johnson, Ph.D., Director, Division of Student Studies, and 1980 Graduation Questionnaire Project Coordinator. Results are based on replies received from 8,382 (55 percent) of the 15,121 final-year students enrolled in the 112 U.S. medical schools awarding the M.D. degree in 1979. (Enrollment figures are from the AAMC Fall Survey for 1978-1979.)

9. The most emphasized instructional programs were perceived by respondents to be (a) care of hospitalized patients, (b) clinical sciences information, (c) diagnostic skills, (d) patient interviewing skills, (e) basic medical sciences information, and (f) therapeutic management.

   Least emphasized were (a) practice management skills, (b) research techniques, (c) medical care cost control, (d) nutrition, (e) physician self-evaluation and independent learning skills, and (f) care of the elderly.

10. Less than 5% indicated they had not taken (or planned to take) Parts I and II of the National Board examinations. Over three-quarters took (or planned to take) these tests as "candidates" for certification by the NBME.

II. Plans for Graduate Medical Education

11a. Ninety-four percent expected to enter a residency the first year after graduation, with 60% in categorical, 27% in categorical* and 8% in flexible residencies.

11b. Less than 1% (69 of 8,382) sought a reduced-schedule first-year residency.

12a. Fifty-seven percent of first-year residencies were planned in potential primary care fields (family/general practice, 16%; internal medicine, 31%; and pediatrics, 10%).

12b. Most popular locations for first-year GME included: California (13%), New York (9%), Pennsylvania and Texas (6% each), and Massachusetts (5%).

14. Twenty-three percent had graduate medical education plans that included a research fellowship. Of these, 47% planned to focus on clinical medicine, 9% on basic medical science, 2% on health care delivery and/or social services and 29% on a combination of 2 or more of the above areas.

15. Of the 8,027 with residency plans, 99% planned 3 or more years of residency training for an average of 3.7 years.

16. Greatest influences on choice of hospital and program (in order of importance) were (a) educational merit program, (b) general reputation of program, (c) ambience of hospital and attitude of its personnel, (d) information about or from house staff, (e) nature of facilities, (f) geographic location in which you might like to establish yourself, and (g) hospital in which you would like to take subsequent years of residency.

17. Only 5% were definitely <u>not</u> planning to seek board certification. Of the 7,809 individuals (93% of 8,382) who reported a "definite" or "most likely" specialty choice, the most frequently specified areas were internal medicine (26%), family practice (18%), pediatrics (9%), OB/GYN (8%), surgery (7%) and psychiatry (4%).

18. Greatest influences on choice of specialty (in order of importance) were (a) opportunities for self-fulfillment, (b) positive clinical experience(s) in chosen specialty, (c) intellectual challenge of subject matter of specialty, (d) type of patient, (e) type of practice/schedule in the specialty, and (f) type of physicians who will be colleagues in the specialty. Influence of spouse and of length of residency program were relatively unimportant.

III. Post Graduate Career Plans

19. Although 12% would like to be significantly involved in research during their medical career, only 9% expected to do so.

20. Most important influences on expectations of personal research involvement (in order of importance) were (a) research experience while a premedical or medical student, (b) challenge of search for new knowledge, (c) societal need for practitioners, and (d) opportunity to work in academic community.

21. Sixty-six percent had first choice of private clinical practice:

    a. Another 19% preferred clinical science teaching, research and patient care.
    b. Only 1% preferred academic careers in basic science.

22. All but 1 percent of the respondents indicated the general region of the country where they planned to practice but only 17 percent specified a particular state.

23. Thirty percent preferred to practice in locations (other than suburbs) of less than 50,000 population.

24. Greatest influences on choice of work location (in order of importance) were (a) characteristics of the community (cultural, educational, recreational, etc.), (b) geographical or regional location, (c) availability of adequate hospital facilities, (d) personal ties or contact with the community (family, friends, etc.), and (e) size of community. Of relatively less influence were (a) location of work experience prior to medical school, (b) recruitment by community, (c) opportunity to serve a particular group of people, and (d) financial advantages.

IV. Demographic and Financial Information

25. Forty-three percent were married, with an additional 10% having specific plans for marriage.

26. Ninety-eight percent of their spouses (or spouses-to-be) had more than a high school education, almost half had done graduate work and 18% held a doctorate.

27. Thirty-six percent of spouses (or spouses-to-be) were currently enrolled in an educational program. Of these, 44 percent were either medical students or medical residents.

28. Eighty-two percent of the spouses (or spouses-to-be) worked for pay during the respondents' medical school careers and 77% of them are likely to work after the respondents have completed their graduate medical education and are in practice or otherwise employed.

29. Over a third of spouses were in health-related occupations (physicians 11%, registered nurses 11% and other health careers 13%).

30. One-third of spouses spent their high school years in locations (other than suburbs) of less than 50,000 population.

31. Less than 15 percent of the respondents had dependents (other than themselves and their spouses).

32a. Seventy-two percent of respondents to this question and/or their spouses (or spouses-to-be) owed educational loans averaging approximately $16,000. Ten percent owed more than $30,000.

32b. Twelve percent received federal scholarships requiring repayment by service. Of these, half were from the Armed Forces and half were from the National Health Service Corps.

33. Only one percent reported they were not U.S. citizens; and 90 percent of all respondents to the survey were white.

-- Fifty-five percent of respondents provided confidential, anonymous comments on what they perceived to be the strengths and weaknesses of their medical schools.

APPENDIX D

AAMC GRADUATION QUESTIONNAIRE REPORT TO THE CLASS OF 1980*

The Association of American Medical Colleges (AAMC), as a result of a survey of the 1979 class of graduating medical students, has gathered information concerning various aspects of students' perceptions of their medical school experience and influences affecting their choice of career. Results related to senior medical students' plans are presented below; data are based on the response of 8,382 students and represent 55 percent of the 1979 graduating class.

PLANS FOR GRADUATE MEDICAL EDUCATION

The 1979 seniors responding to the questionnaire anticipated an average of 3.7 years for residency training with individual responses distributed as follows: less than three years (1 percent), three years (49 percent), four years (23 percent), five years (17 percent), six or more years (6 percent), the remainder were either undecided or did not respond. Less than one percent anticipated no residency and four percent were undecided.

Senior students were asked to indicate the specialty they most preferred for their first year of residency training and, in a related question, in what specialty or subspecialty they were most likely to seek board certification. Responses to the first question are rank ordered in Table 1. The most common preference was internal medicine, which was the desired GME-I specialty of 30 percent of those responding. Half of these students stated that they would most likely seek certification in general internal medicine, and 36 percent foresaw certification in one of the internal medicine subspecialties.

If the results of the survey are representative of the entire 1979 class of 15,000 graduates, it could be estimated that approximately 4,500 preferred a GME-I residency in internal medicine, of whom 2,250 would most likely seek certification in general internal medicine and 1,600 in one of its subspecialties. The remaining 14 percent of those preferring a GME-I in internal medicine were considering certification in a wide range of specialties, with slightly higher numbers in dermatology, neurology, ophthalmology, and radiology. Similar data are given in Table 1 for each of the other GME-I specialty choices.

The 1979 senior students were also asked to rate the importance of specific factors in arriving at a particular career decision. Of the 18 factors related to specialty choice, Table 2 ranks the ten that students thought were most influential. Leading the list, with a national rating of 2.7 (out of a possible 3.0), was "opportunity for self-fulfillment." Seventy-five percent of those responding felt that this had "much" influence on their choice of specialty, and only 4 percent judged this as of little or no importance in arriving at a decision. Other factors that were rated as rather influential in the decision-making process were positive clinical experiences, intellectual challenge, and type of patient. Rated lowest (not shown in table) were the influences of family, spouse, and friends not in medicine. Input from other medical students and the lure of financial advantages were also reported to be of little influence in specialty choice, both receiving a national rating of only 1.

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*Prepared in August of 1979 for inclusion in the Directory by AAMC staff in the Divisions of Student Studies and Educational Measurement and Research at the request of the NRMP. We are grateful to the AAMC and believe that the information will be of value to students and their faculty advisors - ed. (See Reference 6 for full name of NRMP Directory.)

When it came to choosing a particular hospital and program for the first graduate year, the "educational merit of the program" was the most influential of 25 possible factors. This was reported to be a major or moderate influence by 97 percent of the Class of '79 (Table 3). The next most influential factors were "ambience of hospital and attitude of its personnel," "information about or from house staff," and "general reputation of the program." "Amount of stipend" had a national average rating of 1.1, indicating that this was a minor consideration for most graduates. For about 5 percent, however, it was a major factor; and for another 25 percent, amount of stipend had a "moderate" influence on choice of hospital and program.

POSTGRADUATE CAREER PLANS

With regard to particular career activities and modes of practice following residency training, students were asked to give a first, second, and third choice from the activities notes in Table 4. Rank ordered by popularity as a first choice, private group clinical practice headed the list -- the top preference of 42 percent of the survey's respondents -- followed by full-time clinical science faculty appointments (18.6 percent). In the aggregate, however, the majority of first choices (66 percent) were in private practice. Salaried clinical practices were more apt to be second or third choices.

When asked what type of practice location they most preferred (Table 5), one-fourth were attracted to moderate-sized cities (with populations of 50,000 to 500,000). Second in popularity were small cities, and third, sections of large cities other than deprived inner city areas. Inner city areas were attractive to only 4 percent of the survey's respondents. In coming to a decision on practice setting, the strongest considerations were geographic or regional location and characteristics of the community (cultural, educational, recreational, etc.). Both factors received an overall national rating of 2.7 out of a possible 3.0). If they were "making this decision today," respondents also felt that such considerations as the availability of adequate hospital facilities, personal ties or contacts with the community, and the actual size of the community would play important roles in the choice, each receiving an overall rating of 2.3 or higher.

EDUCATIONAL INDEBTEDNESS

With the substantial increases in tuitions in recent years and a shortage of scholarship aid, most 1979 graduates were entering their residency training with a significant amount of educational debt. Approximately 75 percent of the respondents (and/or their spouses) had school debts, which averaged $15,900. Thirty percent of these had accumulated indebtedness in excess of $20,000, and 10 percent owed $30,000 or more. Compared with reports from the Class of '78, all of these figures reflect substantial increases. The impact on career decisions of this growth in post-graduate indebtedness is but one of the many questions we hope to explore further with the data now being provided annually to the AAMC by graduating classes.

Table 1

First Choices for GME-I Specialties and Most Likely Choices for Eventual Specialty Certification
Among 1979 Seniors

GME-I Choice			Percentage Distribution of Respondents by Most Likely Choice for Eventual Specialty Certification*																			
				Internal Medicine			Pediatrics		Ob/Gyn							Surgery						
Rank Order	Specialty	% of Respondents	Family Practice	Gen.	Sub.	Dermatology	Gen.	Sub.	Gen.	Sub.	Psychiatry	Neurology	Pathology	Ophthalmology	Anesthesiology	Gen.	Orthopedic	Other	Otolaryngology	Urology	Radiology	Emergency Med.	Other
1	Internal Medicine	30	1	50	36	2	--	--	1	--	1	3	--	3	1	--	--	--	--	--	2	1	1
2	Family Practice	17	99	0	--	--	--	0	0	--	--	--	0	0	0	0	0	0	0	0	0	--	0
3	Surgery-General	11	0	0	--	0	--	0	--	0	0	--	0	--	--	55	9	24	5	4	--	--	--
4	Pediatrics	9	0	0	--	--	77	17	--	--	1	3	--	--	0	--	--	--	0	0	--	--	1
5	Ob/Gyn	8	--	--	0	0	0	0	62	38	0	0	--	0	0	0	0	0	0	0	0	0	0
6	Flexible	5	12	8	2	4	3	--	3	2	4	2	3	17	6	3	5	1	3	1	8	11	2
7.5	Psychiatry	4	0	1	0	0	0	0	0	0	98	--	0	0	0	0	0	0	0	0	--	0	0
7.5	Surgery-Orthopedic	4	0	0	0	0	--	0	1	0	0	0	0	0	0	1	97	0	0	0	0	0	0
9	Radiology-Diagnostic	3	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	0	--
10.5	Pathology	2	0	0	1	0	0	0	0	0	1	0	98	0	0	0	0	0	0	0	1	0	0
10.5	Anesthesiology	2	1	0	0	0	0	0	1	0	1	0	0	0	96	0	1	0	0	0	1	1	0
12	Ophthalmology	1	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
	Other	5	2	4	1	7	--	0	--	0	0	13	0	1	--	--	1	12	18	13	3	19	6
	TOTAL	100	18	16	11	1	7	2	5	3	4	2	2	3	2	6	5	3	2	1	4	2	1

-- = less than .5 percent.

* Percentages in each row may not add to 100 due to rounding.

Table 2

Ten Most Important Factors in Choice of Specialty
Among 1979 Seniors

Rank Order	Factor	Average Rating Nationally	Percentage Distribution of Respondents by Degree of Influence*			
			Much (3)	Some (2)	Little (1)	None (0)
1	Opportunities for self-fulfillment	2.7	75	21	2	2
2	Positive clinical experience(s) in chosen specialty	2.5	67	24	5	4
3	Intellectual challenge of subject matter of specialty	2.4	53	35	7	4
4	Type of patient	2.0	37	37	14	12
5.5	Type of usual practice/schedule in the specialty	1.9	32	36	20	12
5.5	Types of physicians who will be colleagues in the specialty	1.9	30	38	19	13
7	Medical school faculty	1.7	25	38	21	16
8	Negative clinical experience(s) other than chosen specialty	1.6	22	33	25	21
9	Opportunities for career advancement	1.5	18	36	27	19
10	Society's need for M.D.'s in the specialty	1.4	18	30	24	28

* Percentages in each row may not add to 100 due to rounding.

Table 3

Ten Most Important Factors in Choice of Hospital and Program
for GME-I Among 1979 Seniors

Rank Order	Factor	Average Rating Nationally	Percentage Distribution of Respondents by Degree of Influence*			
			Major (3)	Moderate (2)	Minor (1)	None (0)
1	Educational merit of program	2.7	75	22	2	1
3	Ambience of hospital and attitude of its personnel	2.5	60	30	7	3
3	Information about or from house staff	2.5	60	32	5	2
3	General reputation of the program	2.5	61	32	6	1
5	Nature of facilities	2.3	43	45	9	4
6.5	Hospital in which you would like to take subsequent years of residency	2.2	53	25	8	15
6.5	Geographic location in which you might like to establish yourself	2.2	50	25	16	9
8	Degree of autonomy in patient care	2.1	33	49	13	5
9	Patient population	2.0	31	46	16	7
10	On call/vacation schedule for residents	1.6	17	39	32	13

* Percentages in each row may not add to 100 due to rounding.

Table 4

Preferences for Various Career Activities Among 1979 Seniors

Rank Order	Career Activity	Percentage Distribution of First Choices	Percentage Distribution of Second Choices	Percentage Distribution of Third Choices
1	Private group clinical practice	42.0	18.7	10.3
2	Full-time faculty appointment in clinical sciences (including research and patient care)	18.6	11.0	13.1
3	Private partnership clinical practice	10.7	24.4	9.1
4	Private clinical practice (undecided on number of associates)	9.5	5.2	6.2
5	Salaried clinical practice (hospital)	6.0	13.2	15.1
6	Salaried clinical practice (prepaid group clinic)	4.3	12.9	14.3
7	Private solo clinical practice	3.8	3.7	10.2
8	Salaried clinical practice (state or federal agency)	2.0	3.6	6.6
9	Full-time faculty appointment in basic sciences (including research)	1.0	1.2	0.9
10	Salaried research scientist (clinical)	0.4	1.6	2.3
11	Administration - no practice	0.2	0.3	2.4
12	Salaried research scientist (basic sciences)	0.1	0.5	0.7
	No response	1.4	3.7	8.8
	Total	100.0	100.0	100.0

Table 5

Practice Settings Preferred by 1979 Seniors

Rank Order	Preferred Practice Setting	Percent of Respondents
1	City of moderate size (population 50,000 to 500,000)	25.4
2	Small city (population 10,000 to 50,000 - other than suburb)	18.5
3	Other than deprived inner city area of large city (population 500,000 or more)	13.1
4	Suburb of a large city (population 500,000 or more)	10.1
5	Town (population 2,500 to 10,000 - other than suburb)	8.1
6	Suburb of moderate size city (population 50,000 to 500,000)	6.4
7	Deprived inner city area of large city (population 500,000 or more)	4.1
8	Small town (population less than 2,500)	1.8
9	Rural/unincorporated area	1.4
	Undecided or no preference	8.6
	Other	1.0
	No response	1.5
	Total	100.0